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ADWA' Advancing the Decent Work Agenda in North Africa

الجهاز المركزي للتعبئة العامة والإحصاء
CAPMAS

Analytical Report:
Labour Demand and Labour Market Skills Needs

Sweden
Sverige

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Foreword

In light of the transformation that the Arab Republic of Egypt witnesses towards a more diversified economy and the promotion of growth in both the public and private sectors, a thorough study; it was essential to study the labour market needs for the required skills of workers in both sectors to support this transformation and ensure its continuity. of the labour market needs was deemed crucial.

As part of the activities of the International Labour Organization (ILO) project “Advancing the Decent Work Agenda in North Africa” (ADWA), funded by the Swedish International Development Cooperation Agency (SIDA), coordination was made between the ILO and the Central Agency for Public Mobilization and Statistics (CAPMAS) to conduct this study.

This study aims to benefit researchers, students, decision-makers, and policymakers in making decisions, in this regard, as it analyzes the needs of the Egyptian labour market in terms of educational levels and skills according to different sectors and professions.

The study focuses on the most in-demand skills for the Egyptian labour market by providing a realistic picture of the skills required for current professions and vacancies. Additionally, the study highlights the labour market needs in both the public and private sectors in terms of technical skills and educational levels. It also examines the impact of individual educational levels on different skills and outlines the characteristics of vacant positions.

In a related context, this study represents a culmination of the fruitful cooperation between CAPMAS and the ILO resulting in this study is a product of their longstanding partnership in the field of labour statistics in general and in this study in particular.

Several experts from the ILO participated in developing this study by providing comprehensive technical support and applying all international methodologies and standards. as well as enhancing the capacities of CAPMAS employees through conducting numerous workshops in Egypt and abroad. These workshops had a significant impact on the the development of the employment and wage forms. The work has significantly contributed to the enhancement of the Employment, Wages and Working hours survey. The role of CAPMAS had been central in collecting, analyzing, and disseminating the data, and making it available to all interested parties.

Finally, we are pleased to confirm that the results of study serve as a fundamental cornerstone for identifying the labour market needs of skills, professions and their educational characteristics, aiming to support both employers and job seekers.

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SECTION ONE

Methodology and Key Indicators

Overview of the Eemployment, wages, and working hours Survey in public and private sector establishments:

The first survey on employment, wages, and working hours was carried out in 1942.

- Initially conducted twice a year in January and July,
- The survey is now conducted annually on a fiscal year basis.
- In 2020, the survey underwent an update to include data on wages categorized by occupations. This was achieved by selecting a sample of workers from various establishments.
- A further update to the survey took place in 2022, with new sections introduced to collect data on the skills of current workers and the skills required for vacancies.
- In addition to the annual report, the results are published in the form of a bulletin that can be accessed in print or in PDF format on the website of the Central Agency for Public Mobilization and Statistics.

The survey scope:

includes public sector establishments (671)

private sector establishments (a representative sample of 4716 establishments from the economic census).

The Central Agency for Public Mobilization and Statistics (CAPMAS) conducts the Establishments Survey every ten years as part of the general census of population, housing, and establishments that it conducts every ten years. The most recent Establishments Survey was conducted in 2017 as part of the General Census of Population, Housing, and Establishments, covering approximately 3,780,000 establishments across all branches of economic activity. Additionally, a separate economic census of establishments is conducted every five years, focusing on around 325,000 establishments in the private sector and approximately 2,700 establishments in the public sector. The economic census carried out in 2017-2018 served as the sample framework for selecting a sample for the 2022 establishments survey on employment, wages, and working hours.

The sample frame is created through explicit stratification based on the governorate and size of establishments exclusively. Implicitly, the file of establishments is sorted by economic activity using symbols consisting of four digital levels, within the explicit stratus, to ensure the sample is not spread across too many strata (samples for public and private sector establishments are selected separately).

Sampling of Public Sector Institutions:

All public sector establishments headquarters are included in the sample, representing 100 percent. For public sector companies with more than five branches, samples are taken from up to five branches, in addition to the head office. For establishments with fewer than five branches, all branches are included in the survey, along with the head office.

Sub-sampling of Workers within Sampled Establishments:

Information on individual workers characteristics is collected on a sample basis. The table below outlines the sampling system for selecting workers within establishments. This system is used for both private and public sector establishments, including headquarters and branches. The sample design involves systematically sampling workers from the list of workers sorted by occupation within the establishment.

Taking samples from workers inside the establishments	
Establishment's Size	**Sample number of employees**
1-7 Employees	All Employees
8-24 Employees	8 Employees
25-99 Employees	10 Employees
More than 100 Employee	14 Employee

Sample Design

The 2022 Establishments Survey utilized the Economic Census of Establishments (2017-2018) as the sample framework, selecting both public and private sector establishments separately. Additionally, a sub-sample of workers was taken within the establishments to further analyze the data.

Skills are defined as the ability to apply knowledge acquired through education, experience, study, practice, or teaching in order to perform the tasks and duties required for a job.

a. **Job Specific Skills/Technical Skills**: These are specialized skills needed for a particular job, including knowledge of specific products or services, operating technical tools and machinery, and familiarity with materials used.

b. **Basic Skills:** These fundamental skills like reading, writing, numeracy, and ICT skills are essential for further education and training, as well as for acquiring technical and transferable skills.

c. **Transferable Skills**: These skills can be applied to a wide range of jobs and occupations and can be easily transferred from one job to another. They include problem-solving, cognitive, physical, language, and social behavioral skills..etc and the survey identifies 11 types of skills.

d. **Data is collected on the educational attainment and skill levels** required for each type of skill mentioned above for each employee in the sample.

e. **Four categories of skill levels are provided:**

1- No skills needed,
2- Basic level,
3- Intermediate level
4- Advanced level.

Vacancies

Vacancies represent unmet labor demand, which is the counterpart of unemployment. A job vacancy is defined as:

In a broad sense, vacancies represent the unmet demand for labor, serving as the opposite of unemployment. While an unemployed individual signifies an untapped labor supply, a vacant position indicates a need for additional workers. The correlation between job vacancies and unemployment is essential in accurately defining a job vacancy according to the three criteria outlined by the International Standard Definition of Unemployment. A job is considered vacant:

a. if the position is currently unoccupied, for instance, it has been created, has become newly unoccupied, or has been characterized as becoming vacant in the near future.

b. if recent efforts have been made to fill the vacancy through advertising or recruitment, such as advertising the vacancy in the media or on a public notice board, registering with a job centre or private employment agency, or communicating with, interviewing or selecting potential employees.

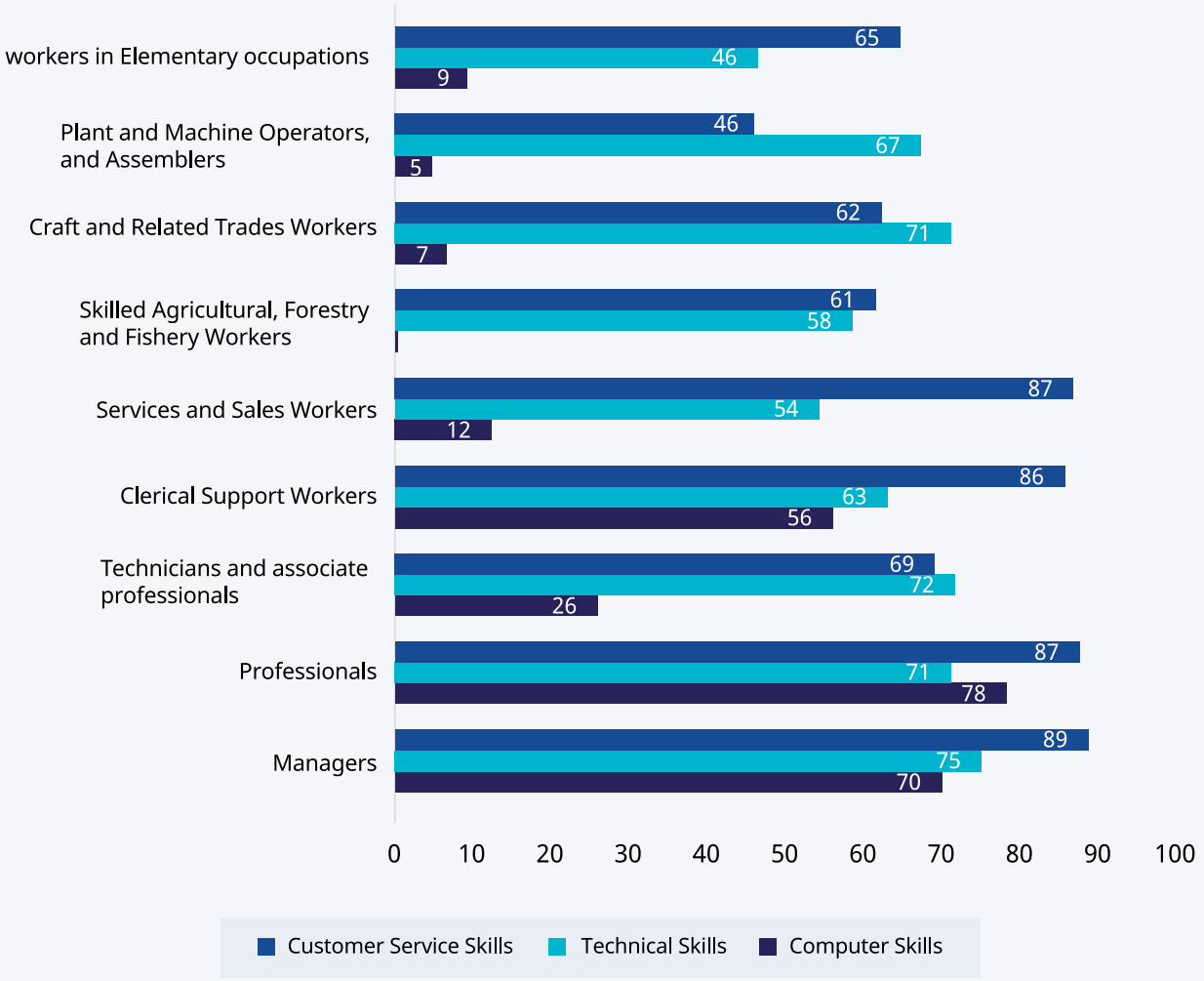
c. and if the role is available for immediate or near-future employment following the recruitment process.

d. Excluded from the count of job vacancies are positions intentionally left open for employees on temporary absence, such as paid or unpaid leave.

Data on each current vacant job or has been vacant in mid-year (June 30) are collected for each occupation within an establishment, including the number of vacancies, required education level, field of specialization, and levels of necessary skills

KEY INDICATORS

Figure (1) displays the percentage of skills (customer handling skills, computer skills, technical skills) necessary for current jobs in the public sector and private sector establishments, based on the main group of the occupations (First digit level)



Data was collected on the skills required for different occupations within the establishment. Out of ten skills, three were selected: customer service skills, computer skills, and technical skills (as shown in Figure1). An analysis of the percentage of skills required for current jobs in public and private sector establishments, based on the main occupations groups, revealed that customer handling skills are the most needed across most occupations. However, technical skills are most required for technicians, assistant professionals, craftsmen, equipment operators, machinery operators, and assembly workers. Managers topped the list with 89% of them requiring customer handling, professionals- professionals in scientific fields, service workers, sales representatives, and clerks followed closely behind, with 88%, 87%, and 86% respectively.

professionals were found to have the highest need for computer skills at 78%, while managers followed at 70%. Managers also sought technical skills at 75%, with Technicians and associate professionals at 72%, and professionals - professionals in scientific fields, craftsmen, and others are equal at 71%.

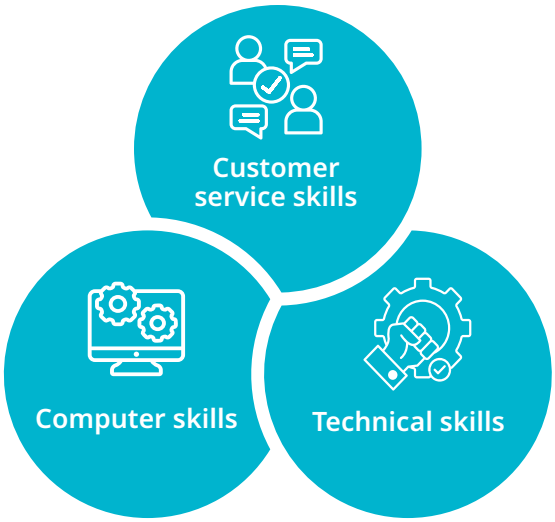
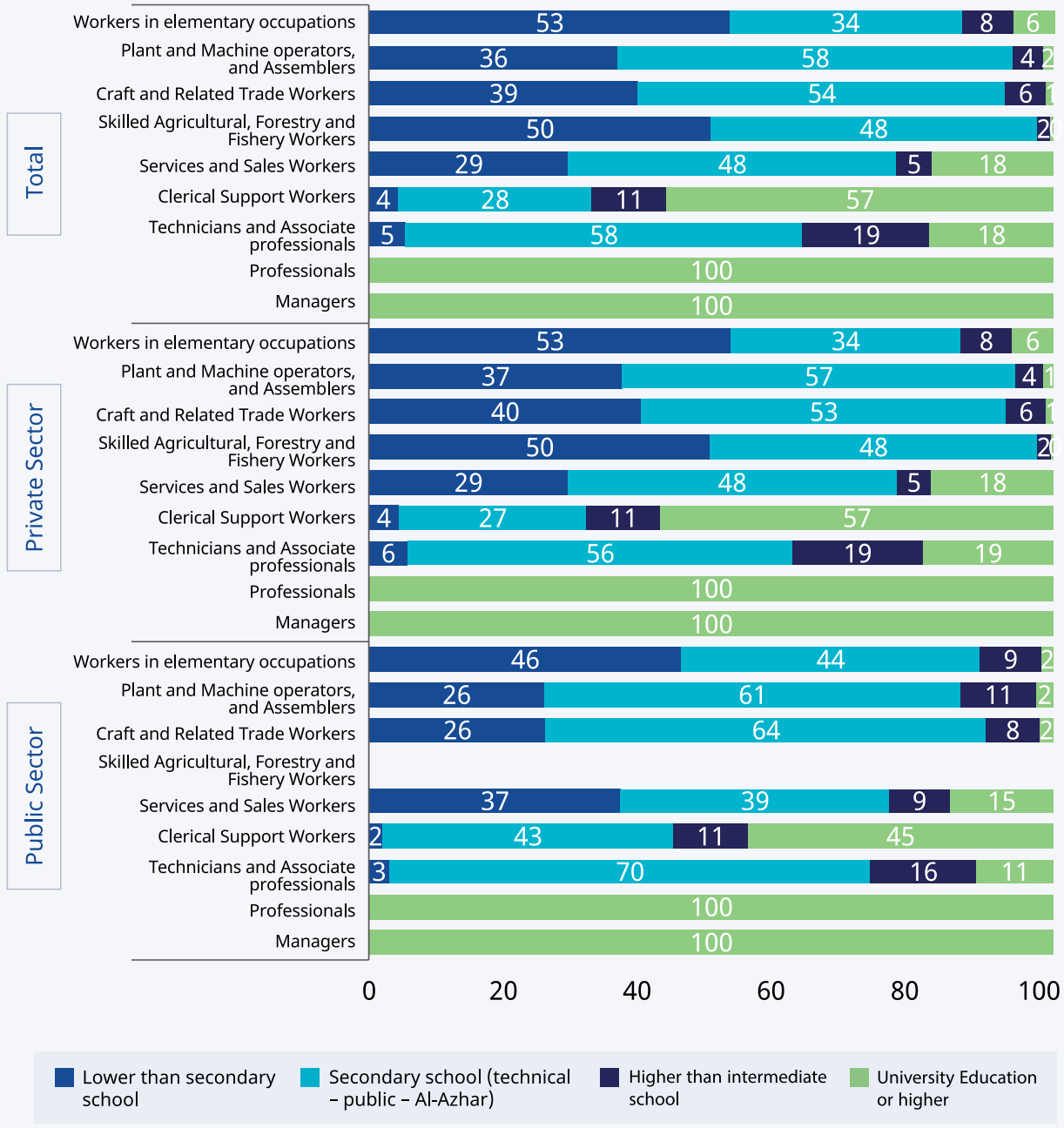


Figure (2) illustrates the relative distribution of current jobs based on the required educational level in public sector establishments compared to the private sector. It also shows the total distribution according to the main group of occupations (First



» **Occupations based on fewer than 30 cases are deleted**

- The study examined the distribution of current jobs based on the required level of education in both the public sector versus private sector establishments, and the total (First Digit Level). It was observed that the educational requirements varied among occupations, with managers and professionals typically necessitating a university level degree or higher. This trend was consistent in both public and private sectors, and accordingly at the overall level, as indicated in Figure (2).

- Certain occupations place a high importance on secondary education compared to other educational levels. These include on top technicians, associate professionals, service and sales workers, craftsmen, equipment operators, machinery operators, and assembly workers across all sectors.

- On the other hand, there are occupations that require less education than secondary education by a higher percentage than other levels. This is particularly notable in skilled workers in agriculture, forestry, and fishing, as well as Workers in Elementary occupations across sectors. It is worth mentioning that the occupations of skilled workers in agriculture, forestry, and fishing is less prevalent in the public sector due to the low number of cases.

Table (1) list of the top 20 occupations that require a university level degree or higher (100%) for current positions in the public sector, and private sector establishments (four-digitlevel)

Occupatio Code	Occupation	Number of Workers	%
2241	Primary School Teachers	59019	100
2141	Industrial and Production Engineers	12403	100
1120	Managing Directors and Chief Executives	179169	100
2161	Building Architects	56020	100
2423	Personnel and Careers Professionals	80434	100
2431	Advertising and Marketing Professionals	6676	100
2611	Lawyers	170155	100
1212	Human Resource Managers	43741	100
1231	Manufacturing Managers	92806	100
2211	Generalist Medical Practitioners	1715	100
2330	Secondary Education Teachers	6524	100
2342	Early Childhood Educators	58696	100
2424	Training and Staff Development Professionals	6460	100
1213	Policy and Planning Managers	24707	100
1219	Business Services and Administration Managers Not Elsewhere Classified	332927	100
1221	Sales and Marketing Managers	58724	100
1342	Health Service Managers	3303	100
1345	Education Managers	6986	100
1411	Hotel Managers	13588	100
1412	Restaurant Managers	33678	100

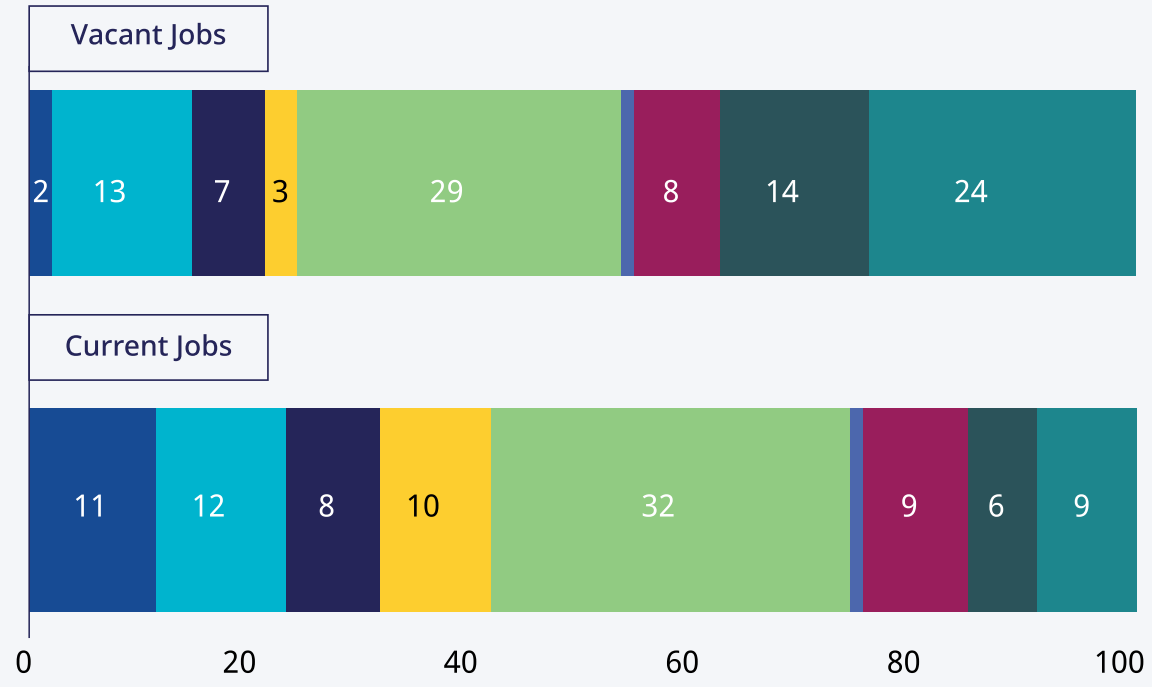
Occupations requiring a university level degree or higher in the public sector/ public business and private sector establishments are identified in Table 1

Table (2) shows the percentage of the top 20 occupations that require intermediate technical education for current jobs in the public sector, and private sector establishments (four digit level).

Occupatio Code	Occupation	Number of Workers	%
4214	Debt Collectors and Related Workers	4469	84.7
3119	Physical and Engineering Science Technicians Not Elsewhere Classified	37679	83.8
3115	Mechanical Engineering Technicians	22876	80.3
3113	Electrical Engineering Technicians	45535	80.1
3112	Civil Engineering Technicians	3147	69.4
4415	Filing and Copying Clerks	14385	67.7
7231	Motor Vehicle Mechanics and Repairers	7552	61.9
4312	Statistical, Finance and Insurance Clerks	4396	56.2
4312	Stock Clerks	10952	55.3
7126	Plumbers and Pipe Fitters	5830	54.8
8322	Car, Taxi and Van Drivers	19210	54.4
5223	Shop Sales Assistants	2307	53.2
8331	Locomotive Engine Drivers	2240	48.9
7412	Electrical Mechanics and Fitters	5125	45.0
5414	Security Guards	23489	43.4
7318	Handicraft Workers in Textile, Leather and Related Materials	340	43.0
4110	General Office Clerks	10827	40.1
3122	Manufacturing Supervisors	3634	33.9
3323	Buyers	1384	33.9
3322	Commercial Sales Representatives	304	33.4

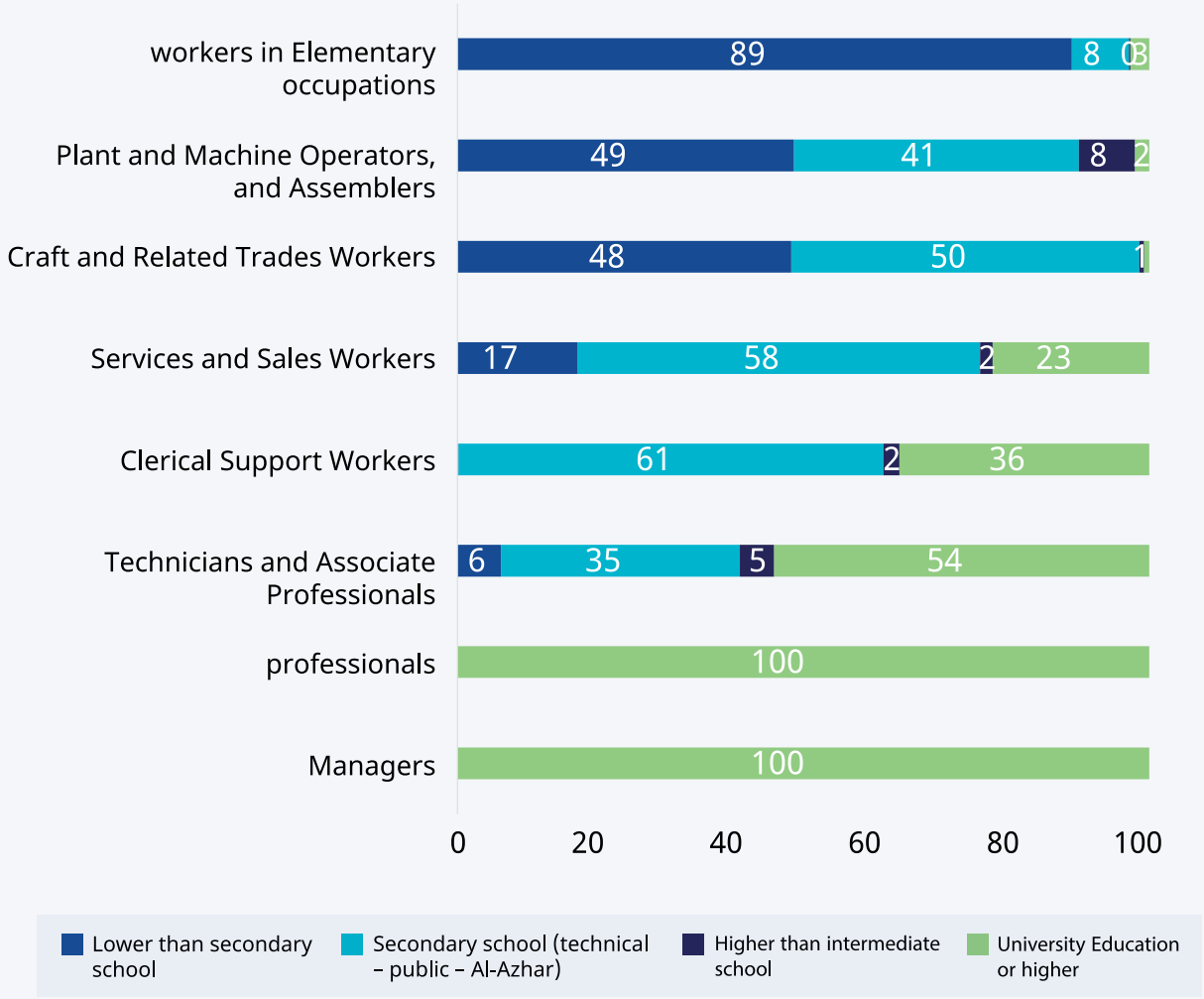
Table (2) displays the percentage of the largest 20 occupations that require intermediate technical education for current jobs in public and private sector establishments, at the four-digit level. Among these occupations, Debt Collectors and Related Workers rank highest in terms of requiring intermediate technical education, with 84.7% of current jobs in this field necessitating this level of education. Conversely, Commercial Sales Representatives rank lowest among the top twenty occupations, with only 33.4% of positions in this field requiring intermediate technical education.

Figure (3) the relative distribution of current and vacant jobs in public and private sector establishments according to occupations.



A comparison was made between the distribution of current and vacant jobs in public and private sector establishments based on different occupations. Figure (3) reveals that while the percentage of Workers in Elementary occupations stands at 9%, the percentage of vacant jobs in that field is nearly three times higher at 24%. Similarly, the percentage of vacant positions for equipment and machinery operators and assembly workers is 14%, which is double the percentage of current jobs at 6%. The gap between current and vacant job ratios also exist in occupations such as professionals, technicians, associate professionals, skilled workers in agriculture, forestry, fishing, craftsmen, and the like.

Figure (4): The relative distribution of job vacancies based on the educational level required for public sector, and private sector establishments in different groups of occupations (First-digit level).



By analyzing the educational requirements for job openings in the public sector and private sector establishments across main groups of occupations (first digit level), it is evident that managerial and professionals positions – professionals in the scientific fields typically necessitate a university level degree or higher. This is followed by technicians and associate professionals, where 54% of positions require a similar level of education. In contrast, clerical positions mainly require a secondary school certificate, with 61% of vacancies in this occupations falling under this category.

The occupations with the highest demand for qualifications below the secondary level is elementary occupation workers, with 89% of vacancies for these occupations requiring this level of education. On the other hand, vacancies for positions that necessitate above-intermediate qualifications are relatively rare across various occupations, as indicated in Figure (4).

Table (3): Percentage of the highest 20 largest vacancies out of the total vacancies in public and private sector establishments (at the four-digit level).

Occupatio Code	Occupation	Number of Workers	%
9621	Messengers, Package Deliverers and Luggage Porters	40171	13.7
5223	Shop Sales Assistants	32240	11.0
9112	Cleaners and Helpers in Offices, Hotels	26023	8.9
5153	Building Caretakers	11358	3.9
2411	Accountants	11219	3.8
7322	Printers	7977	2.7
5414	Security Guards	7360	2.5
8153	Sewing Machine Operators	5654	1.9
8152	Weaving and Knitting Machine Operators	5097	1.7
5131	Waiters	3815	1.3
4120	Secretaries (general)	2921	1.0
3434	Chefs	2824	1.0
2262	Pharmacists	2639	0.9
8322	Car, Taxi and Van Drivers	2310	0.8
3119	Physical and Engineering Science Technicians Not Elsewhere Classified	2297	0.8
5120	Cooks	2163	0.7
5151	Cleaning and Housekeeping Supervisors in Offices, Hotels and Other Establishments	2098	0.7
2511	Systems Analysts	1961	0.7
1120	Managing Directors and Chief Executives	1832	0.6
8142	Plastic Products Machine Operators	1745	0.6

» **Occupations based on fewer than 30 cases are deleted**

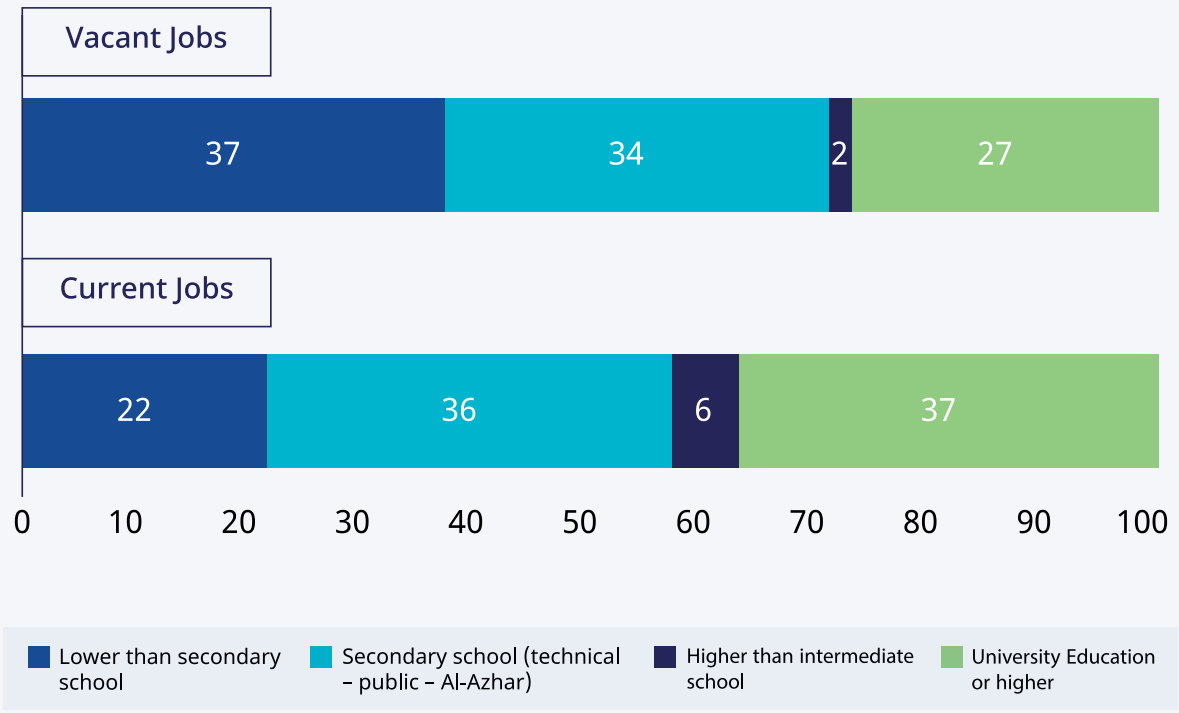
The highest number of vacancies in the public sector, and private sector establishments are Messengers, Package Deliverers, and Luggage Porters, followed by Shop Sales Assistants at a share of 13.7% and 11% respectively. Cleaners and Helpers in Offices, Hotels, and Other Establishments rank third with approximately 9% of vacancies. The occupation of Plastic Products Machine Operators ranks the lowest among the top twenty occupations with a vacancy share of 0.6%, as indicated in Table (3).

Table (4): percentage of 20 largest vacant occupations out of the total vacant occupations in public sector establishments (four-digit level)

Occupatio Code	Occupation	Number of Workers	%
8131	Chemical products plant and machine operators	796	10.8
3119	Physical and engineering science technicians not elsewhere classified	768	10.5
7126	Plumbers and pipe fitters	406	5.5
3113	Electrical engineering technicians	319	4.4
2411	Accountants	286	3.9
5414	Security guards	277	3.8
2120	Mathematicians, actuaries, statisticians	274	3.7
3132	Incinerator and water treatment plant operators	255	3.5
2144	Mechanical engineers	255	3.5
4419	Clerical support workers not elsewhere classified	250	3.4
2151	Electrical engineers	218	3.0
8322	Car, taxi and van drivers	196	2.7
3112	Civil engineering technicians	169	2.3
9112	Cleaners and helpers in offices, hotels and other establishments	169	2.3
2142	Civil engineers	162	2.2
3111	Chemical and physical science technicians	137	1.9
4415	Filling and Copying clerks	130	1.8
9613	Sweepers and related labourers	127	1.7
2113	Chemists	126	1.7
3221	Nursing associate professionals	111	1.5

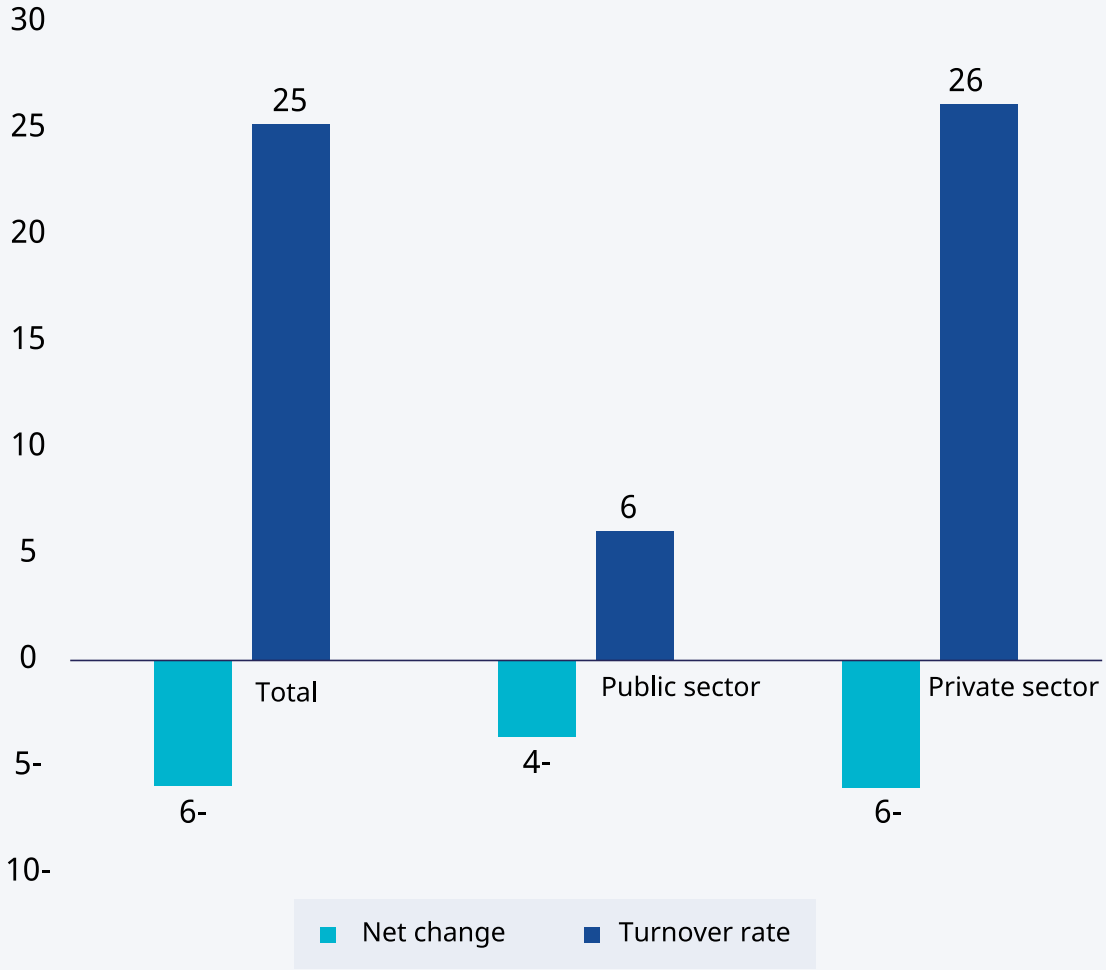
Table (4) illustrates that the occupations with the highest number of vacant jobs within public sector establishments are chemical products plant and machine operators, with a share of 10.8%. This is followed by physical and engineering science technicians not elsewhere classified (others), with a share of 10.5%, and plumbers and pipe fitters at a share of 5.5%. The occupation of nursing associate professionals ranks last among the top twenty occupations, with a share of 1.5%, as indicated in Table (4).

Figure (5) relative distribution of current and vacant jobs based on educational level in public sector and private sector establishments



A comparison was made between the educational requirements for current and vacant jobs across public sector, and private sector establishments, as shown in Figure (5). The analysis reveals that the percentage of secondary school education required for both current and vacant positions is similar, at 36% and 34% respectively. However, there are differences in the required percentages for other educational levels. Vacant jobs tend to require qualifications lower than a secondary school education, compared to current positions. In contrast, current jobs typically demand qualifications at or above the intermediate, university, or higher level, in comparison to vacant positions.

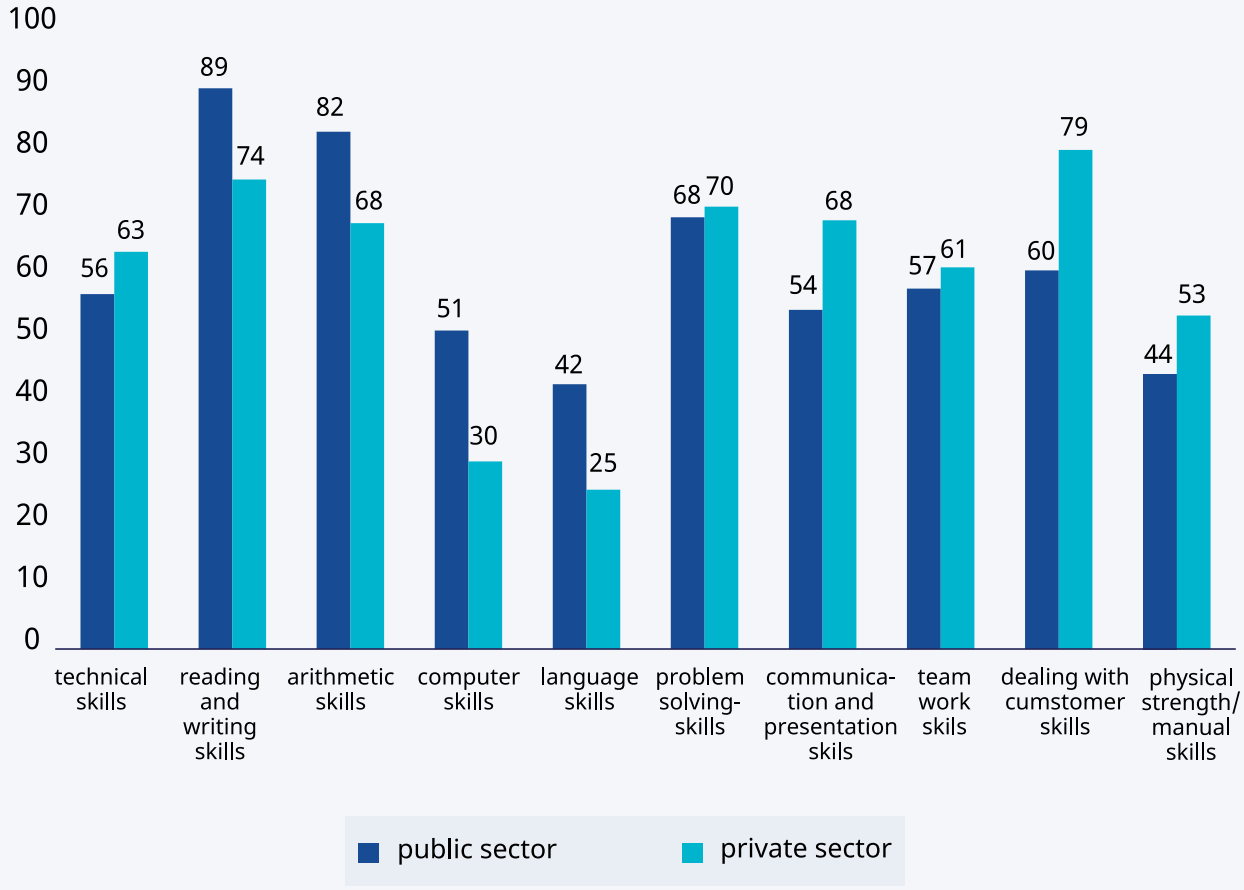
Figure (6) labor turnover share and net employment change share in public sector establishments versus the private sector



The survey provides data on the amount of workers leaving and being hired, from which the net employment change share and labor turnover share are calculated. The calculations reveal that the net employment change share is negative, indicating that the share of getting a job is lower than the share of job loss. This is observed in both public and private sector establishments, as shown in Figure 6. Additionally, the labor turnover share in the private sector is higher compared to the public sector, reaching 26%, making it a significant factor in the overall turnover share. In contrast, the turnover share in the public sector is only 6%.

The negative net change in employment may be attributed to the impact of the COVID-19 pandemic that began in early 2020, as well as the fact that the survey includes establishments established prior to 2017.

Figure (7) percentage of skills required in public sector versus the private sector



In order to understand the varying skill sets required for workers in the public sector , as compared to the private sector, a comparison of the percentage of skills needed in each sector is conducted. The results depicted in figure (7) show a distinct difference in the types of skills required between public sector establishments and private sector establishments. The data indicates that the public sector places a higher emphasis on basic skills such as reading, writing, arithmetic, computer proficiency, and language in comparison to the private sector. Conversely, the private sector places a higher priority on general skills including problem-solving, communication and presentation abilities, teamwork, customer handling skills, and physical strength/manual dexterity.

SECTION TWO

Occupations and skills of current workers

- A more detailed analysis of the skills required for current jobs in the public sector, and private sector establishments can be done based on the subcategories of occupation as shown in Appendix 1, Table 1-1. According to the data, customer handling skills are the most in-demand skills for workers in both the public and private sectors, with a percentage of 78.3%. Literacy skills come in second place with a percentage of 75.2. Conversely, foreign language skills and computer skills are the least required skills, with percentages of 26.1% and 30.8%, respectively.

- When looking at the groups of occupations, literacy skills are particularly crucial for managers (91.7%), professionals – professionals in the scientific fields (94.5%), technicians and associate professionals (86.1%), and clerical support workers (90.8%). While there is a slight difference in demand between arithmetic skills and reading and writing skills for managers, the latter is favored by 0.2%. Customer handling skills are highly sought after for service and sales workers, at a percentage of 86.7%. For skilled agricultural, forestry, and fishery workers, physical strength and manual skills are the most important at 92.4%. Plant and machine operators and assemblers rank next at 73.4%, followed by craft and related trades workers at 64.8%. Among professionals – professionals in the scientific field, computer skills are highly necessary at 78.2%, followed by foreign language skills at 69.2%. Computer skills are required for managers at a share of 69.8%, while foreign language skills are needed at 58.7%. Regarding technical skills, managers have the highest demand at 75%, followed by technicians and associate professionals at 71.6%, and professionals – professionals in the scientific field and craft and related trades workers tie at 71.1%. Problem-solving skills are especially important for managers (87.0%), professionals – professionals in the scientific field (83.7%), and clerical support workers (81.3%).

- Finally, at the subgroups level, legal, social, and cultural professionals require excellent customer handling skills at 95.7%. ICT professionals are in high demand for computer skills at around 95.9%, while health professionals need foreign language skills the most, at about 97.6 %. Skilled agricultural, forestry, and fishery workers have the highest demand for technical skills at 94.2%, while legal, social, and cultural professionals rely heavily on problem-solving skills at a share of 98.2%.

- The data in Appendix (1) Table (1-2) reveal the skills needed for current jobs in the public sector establishments, categorized by subgroups of occupations (Two-digit level). Among the main groups of occupations, technicians and associate professionals top the list with a requirement of technical skills at 63.8%, whereas Workers in Elementary occupations require the least technical skills at a share of 28.4%.

- In terms of literacy skills, professionals have the highest demand at 98.9%, followed by managers at 98.3%. On the other hand, elementary occupations only require literacy skills at 62.1%. The need for arithmetic skills is highest among managers and professionals at 95% and 95.3%, respectively. Workers in these groups also show an increased demand for computer skills at 83.5% and 76.9% respectively, surpassing other occupations. Similar trends are seen in foreign language skills, with percentages of 67.8% and 64.6%, respectively. Craft and related trades workers have the lowest demand for computer and language skills at 4% and 4.9% respectively. Managers display the highest requirement for problem-solving skills at 77.4%, while those in elementary occupations show the least demand at 37.9%.

- In terms of physical strength/manual skills, craft and related trades workers have the highest demand at 69.4%, whereas clerical support workers have the lowest demand at 28.8%. Among subgroups of occupations, ICT professionals require the most technical skills at 80.9%. Lastly, for physical strength/manual skills, the subgroup of food

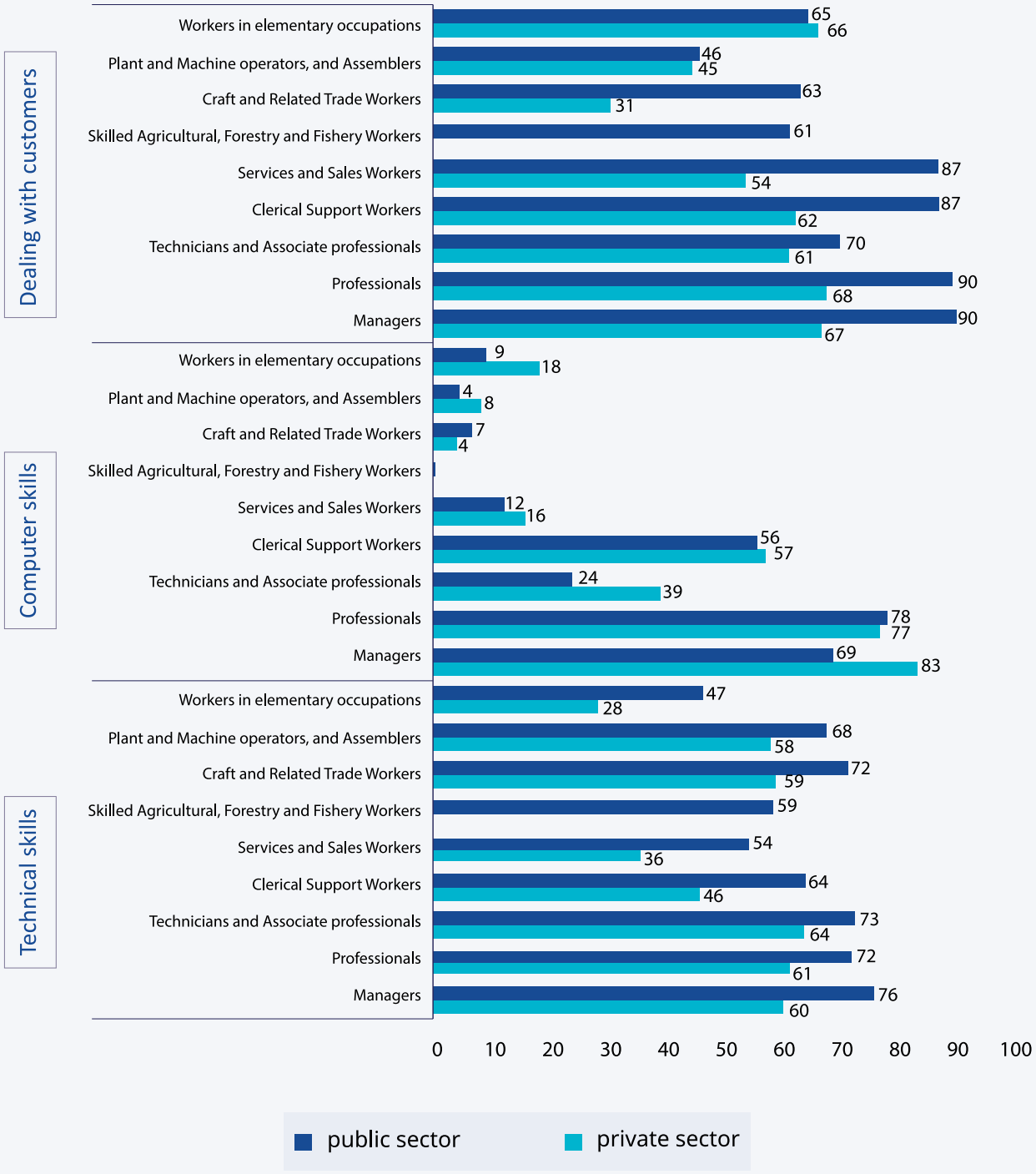
processing, woodworking, garment, and other craft-related trades workers have the highest demand at approximately 81.1%.

- Analyzing the skill requirements for current jobs in the private sector, based on occupation subgroups (Two-digit level) as shown in Appendix (1) Table (1-3), reveals that managers have the highest need for technical skills at a share of 76%. In contrast, workers in elementary occupations require technical skills to a lesser extent, with only 46.6% of them needing it. The data highlights the importance of reading and writing skills, with 94% of professionals, 91.2% of managers, and clerical support workers emphasizing their significance.

- Professionals top the list for requiring computer skills, language skills, and communication and presentation skills, with shares of 81.1%, 71%, and 89.7%, respectively. Managers demand a variety of skills more than other occupations, including accounting skills, customer relations, problem-solving, and teamwork, with shares of 91.2%, 90.2%, 88.7%, and 80.2%, respectively. Skilled agricultural, forestry, and fishery workers need physical strength and manual skills the most, at a share of 92.5%, while clerical support workers are the least likely to require this skill, at 28.8%.

- Looking at specific subgroups of occupations, electrical and electronic trades workers have the highest need for technical skills, at 95.7%, while handicraft and printing workers require reading and writing skills the least, at 25%. ICT professionals are the most in need of computer skills, at 95.2%. Health professionals are the highest in demand for language skills and communication and presentation skills, at around 98.1%. Market-oriented skilled agriculture, forestry, fishery, and hunting workers require physical strength and manual skills the most, at 92.5%, while general and keyboard clerks need these skills the least, at 19.2%.

Figure (8) percentage of skills required for current jobs in public sector establishments versus the private sector establishments according to the main group of occupations (First Digit Level)

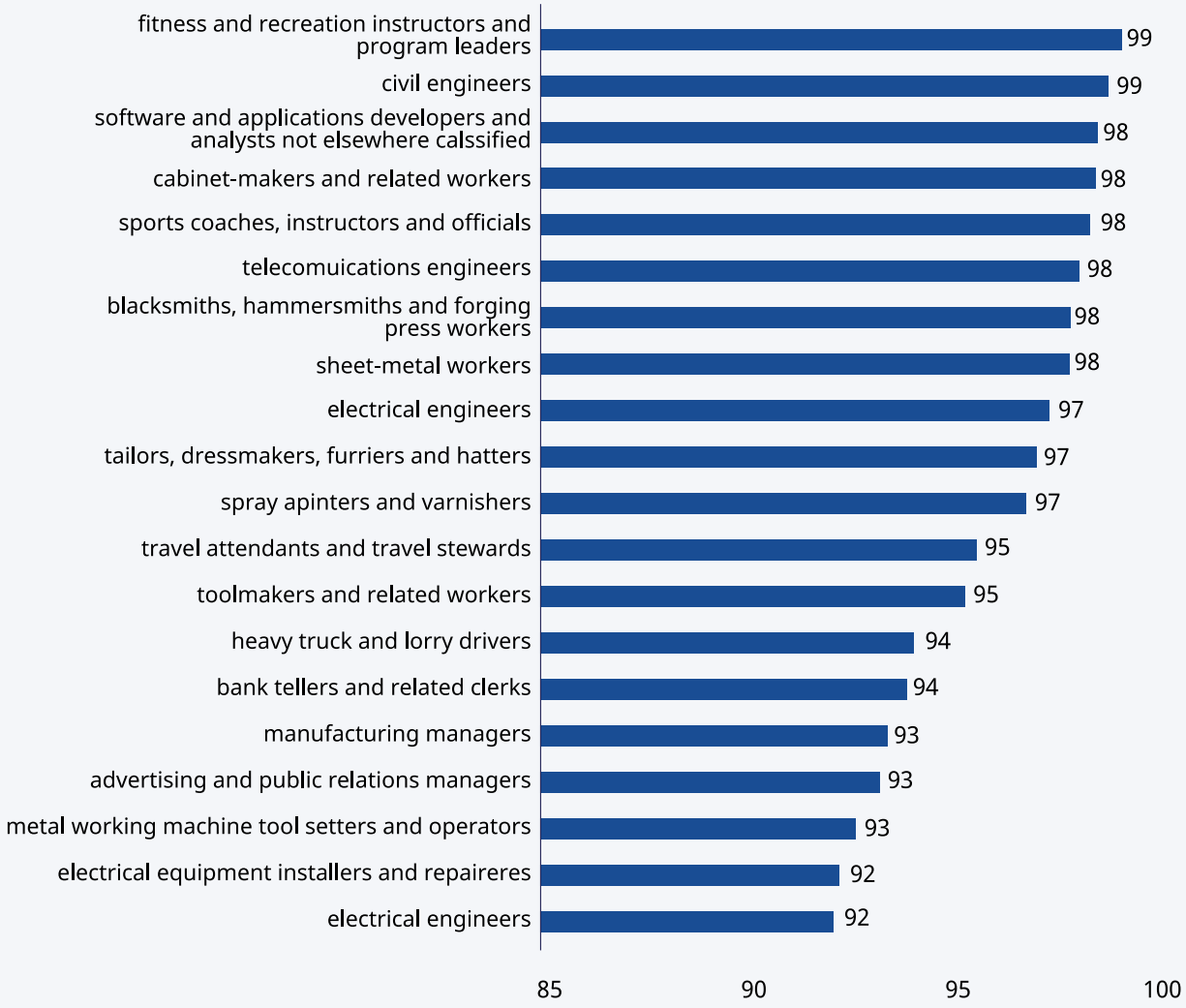


A comparative study was conducted on the percentage of skills needed for current jobs in public sector and private sector establishments. The study focused on the main groups of occupations, with findings presented in Figure 8. It was revealed that technical skills are more in demand in private sector establishments compared to public sector establishments. Specifically, managers have the highest need for technical skills in the private sector at a share of 76%, whereas technicians and associate professionals require this skill the most in the public sector at a share of 64%. The largest disparity in required technical skills between the two sectors was observed for service and sales workers, with a 19 percentage point.

In terms of computer skills, managers in public sector establishments require this skill the most at a share of 83%, while professionals are the most in demand for computer skills in the private sector at a share of 78%. The greatest difference in the requirement for computer skills between the two sectors was seen for technicians and associate professionals in the private sector, with a 15 percentage point gap.

Finally, in terms of customer handling skills, professionals in public sector establishments require this skill the most at a share of 68%, while managers in the private sector have the highest demand for this skill at a share of 90%. The largest difference in the requirement for dealing with clients skills between the two sectors was observed for service and sales workers, with a 33 percentage point gap.

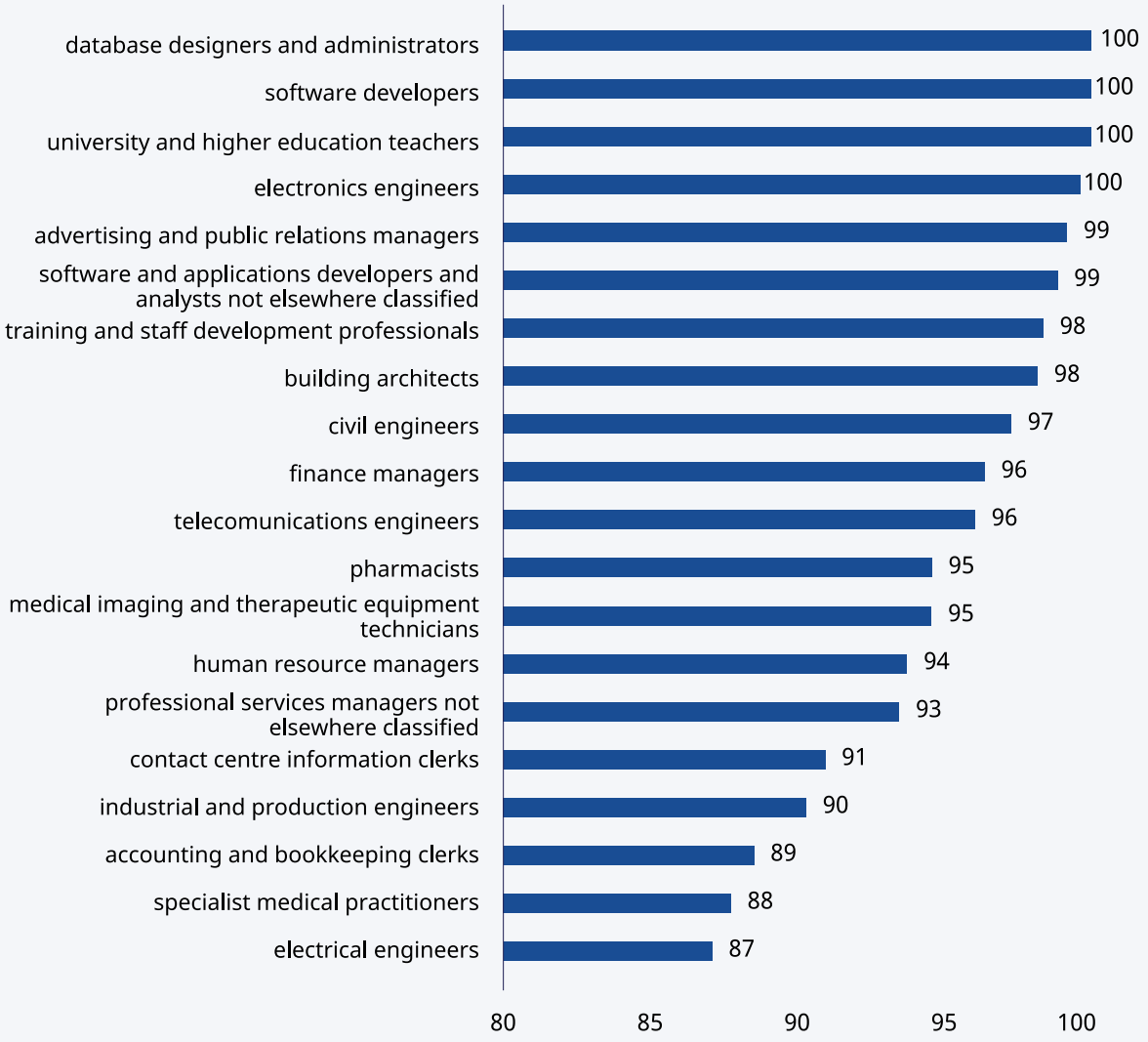
Figure (9) The top 20 occupations that require technical skills out of the total current occupations in public sector and private sector establishments (Four-digit level)



» **Occupations based on fewer than 30 cases are deleted**

The study identified the 20 largest occupations based on the demand in current jobs for technical skills in the public sector, and private sector establishments. The required percentage of technical skills for these occupations ranged from 99% to 92%. The occupation with the highest demand for technical skills is fitness and recreation instructors and program leaders, while electrical engineers rank 20th with a demand of about 92%.

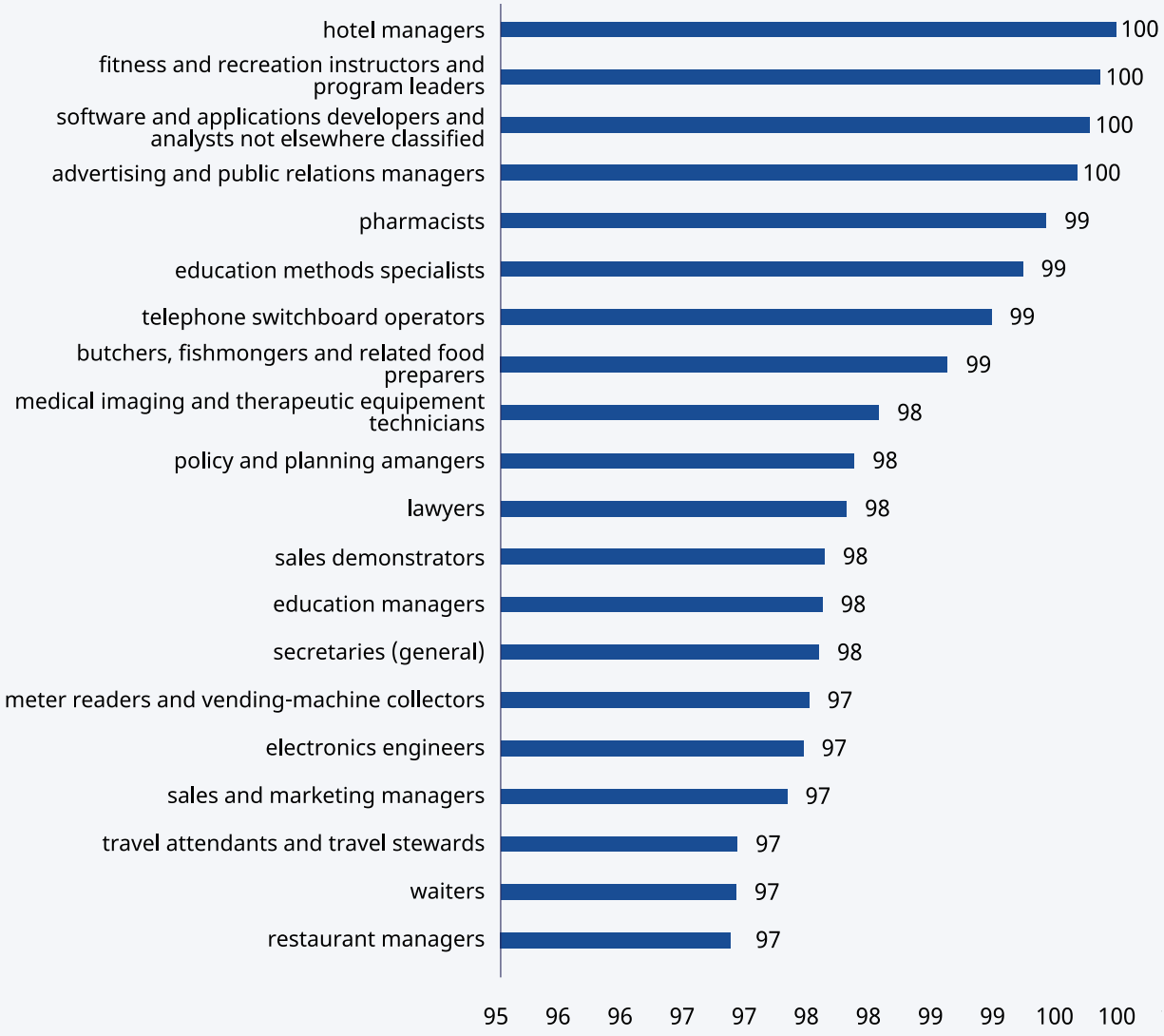
Figure (10) the top 20 occupations that require computer skills out of the total current occupations in public sector and private sector (forth digit)



» **Occupations based on fewer than 30 cases are deleted**

For the 20 largest occupations that require computer skills in current jobs in public sector and private sector establishments at the fourth-digit level, the study found that some occupations, such as database designers, software developers, and university teachers, require this skill for all their employees. On the other hand, electrical engineers have the lowest demand for computer skills among the top 20 occupations, with only 87%.

Figure (11) the top 20 occupations that require customer handling skills out of the total current occupations in public sector and private sector establishments (Four-digit level)

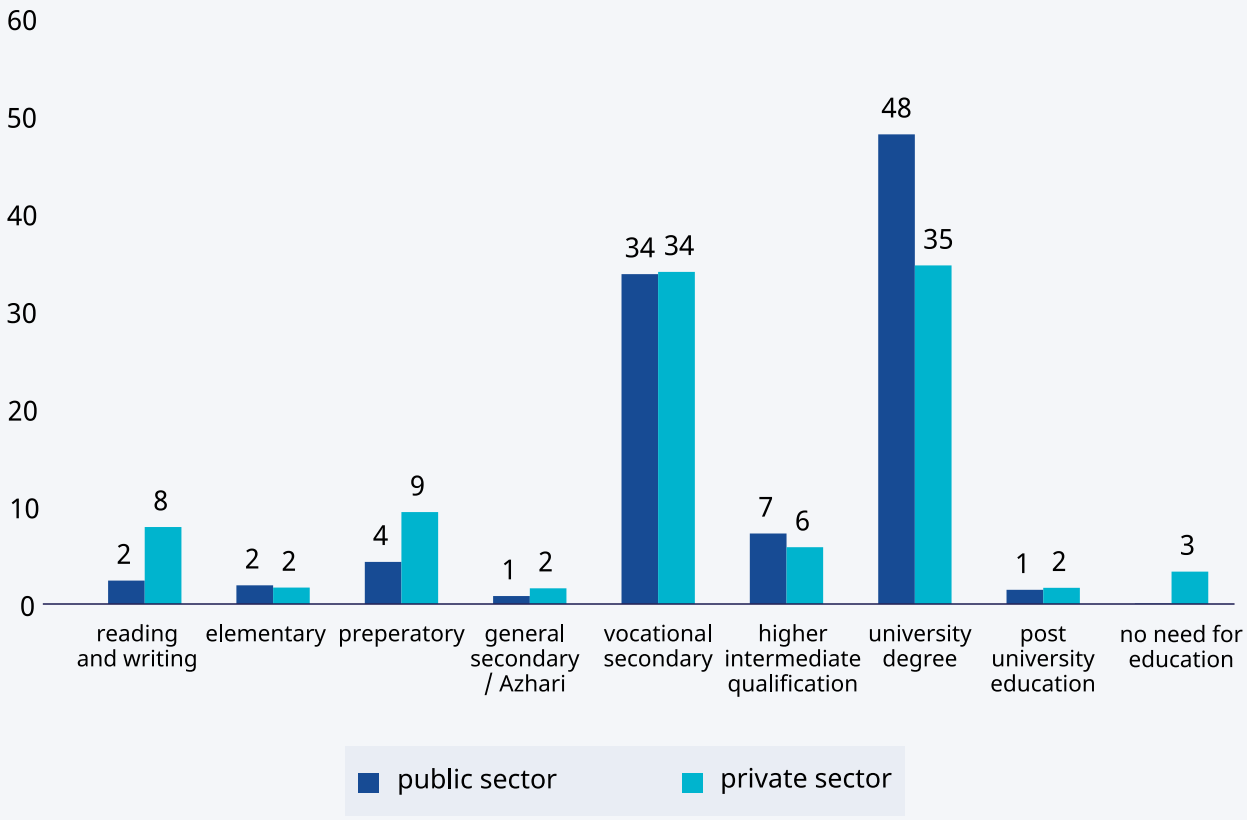


When analyzing the 20 largest occupations that require customer handling skills for current jobs in public sector and private sector establishments at the fourth digit, it was found that four occupations, including hotel managers, software developers, and advertising managers, require this skill for all their employees. The occupation with the lowest demand for customer handling skills is restaurant managers, with only 97% of the top 20 occupations requiring this skill, as shown in Figure (11).

SECTION THREE

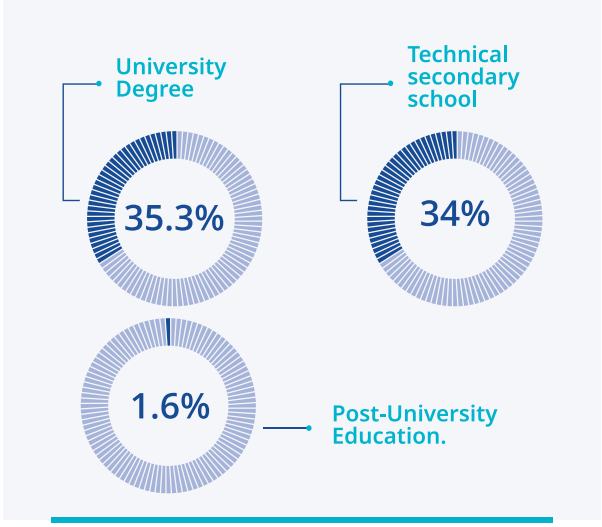
Educational level required for current jobs

Figure (12) relative distribution of current jobs according to the educational level required in public sector establishments versus private sector



The disparities in educational requirements between public sector/ establishments and private sector establishments are evident. The data indicates that the education prerequisites for the public sector/are more stringent than those for the private sector. Specifically, the minimum educational level required for the public sector is a university degree, with a share of 48%, compared to 35% in the private sector. Additionally, both sectors have an equal percentage of technical secondary school requirements, standing at 34% for both. Notably, there is no specified percentage of positions in the public sector/that do not necessitate any education, while in the private sector, such positions account for 3%. Furthermore, the literacy requirement in the private sector is notably higher at 8%, in contrast to the public sector's 2%. This information is illustrated in Figure (12).

- In order to identify the disparities in educational requirements at the level of the main and subgroups of occupations within the public sector, and private sector establishments, Appendix (2) Table (2-1) provides the relative distribution for current jobs based on the mandated educational levels in these sectors. Within the subgroups of occupations (Two-digit level), it is evident from the data in the table that the majority of positions necessitate a university degree (35.3%), followed closely by a technical secondary school qualification (34%), while only a small percentage (1.6%) of roles require post-university education.



- When examining the different main categories of occupations independently, a discrepancy in educational prerequisites becomes apparent. Managers and professionals /self employed persons predominantly call for a university degree or post-university education. Managers require a university degree in 98.5% of cases, with only 1.5% necessitating post-university education. Similarly, professionals see 92.3% requiring a university degree and 7.7% needing post-university education. Notably, professionals/self employed exhibit the highest demand for post-university education at 15.5%. On the other hand, technicians and associate professionals have the highest percentage of roles calling for a higher intermediate qualification at 18.6%.

- Certain occupations have a higher demand for secondary technical education compared to other educational levels. Plant and machine operators and assemblers (55.7%) and technicians and associate professionals (56.8%) stand out in this aspect. Craft and related trades workers and elementary occupations do not require any formal education, with 11.5% and 10.2% of workers falling under these categories. There are also variations in literacy requirements among different occupations, with skilled agricultural, forestry, and fishery workers, and plant and machine operators and assemblers showing higher demands for reading and writing skills at 19.4% and 14.3%, respectively.

- Within the subgroup level, health professionals are more likely to seek post-university education rather than a university degree, with a share of 15%. Other health associate professionals display an increased need for higher intermediate qualifications at around 34.35%. Science and engineering associate professionals and metal, machinery, and related trades workers have the highest demand for technical secondary education at 70.2% for each. Conversely, electrical and electronic trades workers exhibit a lower need for education, with higher percentage requiring none at all, reaching 54.5% in this category.

Health Professionals

Health Associate Professionals

Science and engineering associate professionals and metal, machinery, and related trades workers

Electrical and Electronic trades workers

- The data from Appendix (2), Table (2-2) illustrates the relative distribution of current jobs based on the educational requirements in public sector establishments across different occupation subgroups (Two-digit level). The analysis reveals that 48.1% of occupations in this category necessitate a university degree, with approximately 38.8% requiring a technical secondary school diploma. Interestingly, none of the occupations in this category mandate no education, while only 1.4% call for a post-university qualification. Educational requirements vary depending on the main occupational groups. Professionals and self employed with managers coming next, stand out as the occupations with the highest demand for a university degree, with shares of 96.9% and 96.4%, respectively. Additionally, managers and professionals have the highest percentage of post-university qualification requirements at 3.6% and 3.1%, respectively. They do not take any education level less than university.

- On the other hand, clerical support workers rank third in terms of demand for a university qualification at a share of 44.2% demand for a university qualification, while technicians and associate professionals, craft and related trade workers, plant and machine operators, assemblers, elementary workers, and service and sales workers primarily require a technical secondary school education, with shares ranging from 37.6% to 70%.

- Furthermore, despite clerical support workers and technicians requiring educational levels below technical or general secondary school, they have the lowest share of professionals in those categories demanding such qualifications, at around 2.5% and 0.3%, respectively for Azhari certificate. Even though most occupations within major categories require at least literacy education, 0.5% of plant and machine operators and assemblers do not mandate any education.

- Delving into subgroups of occupations, 100% hospitality, retail, and other services managers, health professionals, and ICT professionals necessitate a university degree, while production and specialized services managers have the highest demand for post-university qualifications at 7.9% and 7.2%, respectively.

- Food processing, wood working, garment craft, science and engineering associate professionals are key fields that most require technical secondary education, with shares around 74.5% to 74.8%. Lastly, cleaners and helpers have the highest demand among subgroups for preparatory education at 46.6%.

- The data in Appendix 2 Table 2-3 show variations in educational requirements among different occupations at the level of the main and subgroup of occupations in private sector establishments according to the subgroup of occupations (Two-digit level)).. For managers and professionals, a university degree is the minimum educational requirement, with shares of 98.7% and 91.8% respectively. Additionally, 8.2% of professional /self employed and 1.3% of managers have post-university qualifications, resulting in a 6.8% difference between the two occupations.

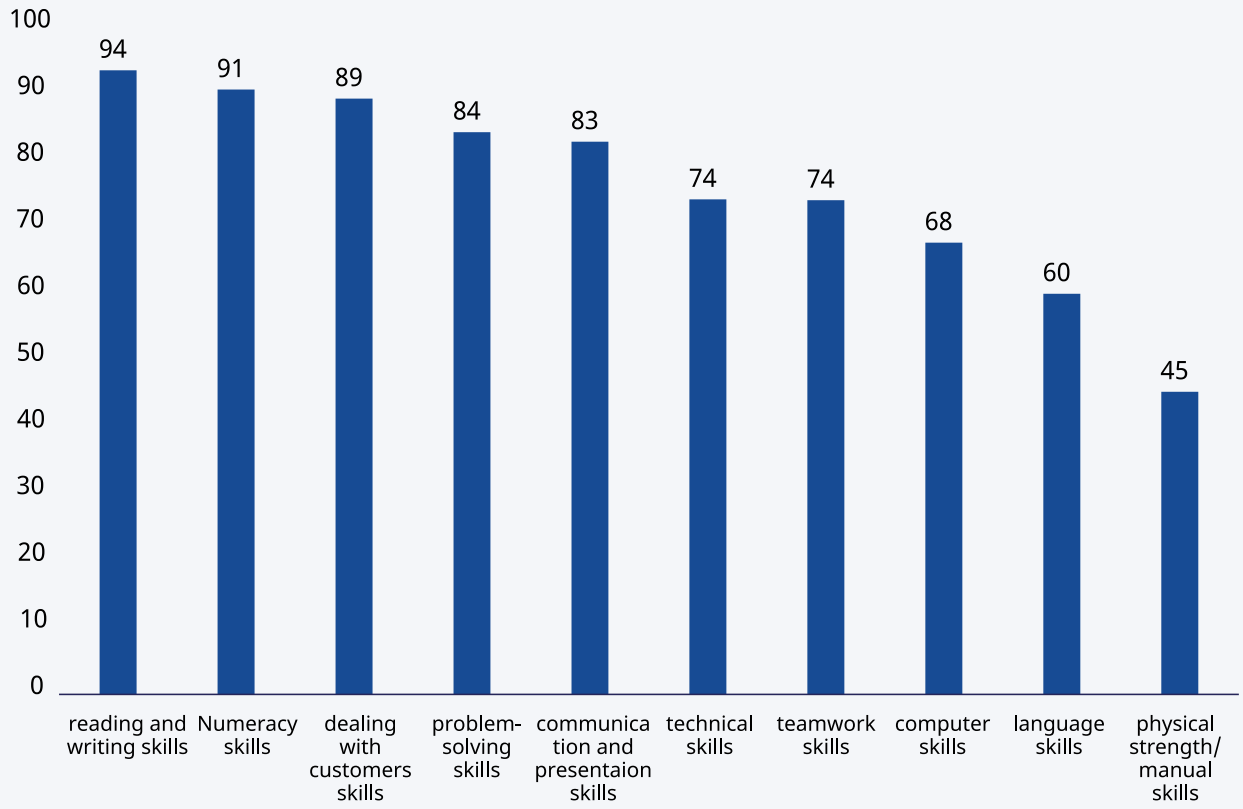
- Certain occupations such as plant and machine operators, technicians, craft workers, service workers, agricultural workers, and elementary workers require a technical secondary school diploma being the highest qualification required at shares ranging from 33.1% to 55.5%. Craft workers and elementary workers are the occupations with the lowest educational requirements, with only about 12% and 10.3%, respectively.

- At the subgroup level, legal, social, and cultural professionals have the highest percentage of university qualifications at 99.9%, while health professionals have the highest percentage of post-university qualifications at 15.7%. Metal workers have the highest demand of subgroups for technical secondary school qualifications at 70.5%, while street vendors and service workers have the highest percentage of subgroups that do not require education, at about 1.7%.

SECTION FOUR

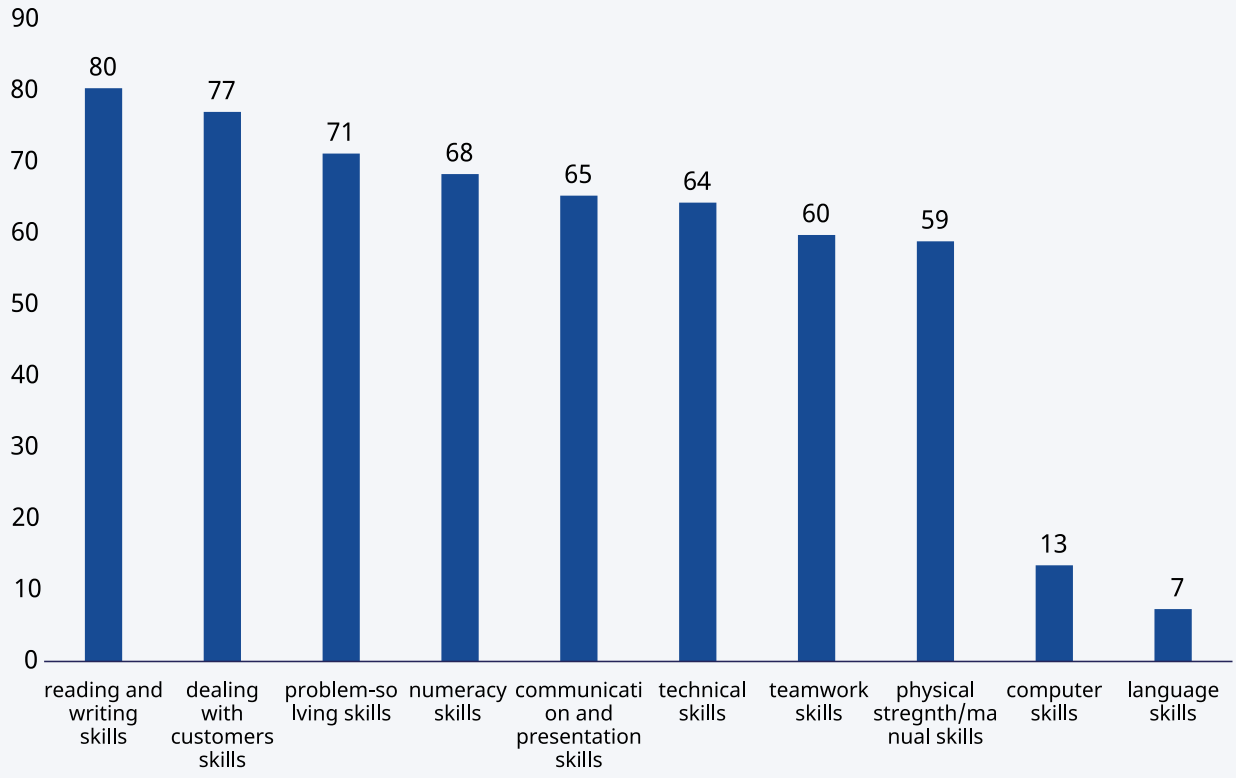
Skills required according to educational level

Figure (13) percentage of skills required for those with university education in public sector and private sector establishments



The survey results provide data on the type of skills most in demand in occupations that require a university degree, as well as other educational levels. In Figure 13, it is evident that the most important skills for workers with a university degree in the public and private sector are reading and writing skills at a share of 94%, followed by numeracy skills at 91% and customer service skills at 89%. Physical strength/manual skills are the least required, while technical, computer, and foreign language skills have lower percentages at 74%, 68%, and 60% respectively.

Figure (14) percentage of skills required for those with a technical secondary degree in public sector and private sector establishment



By analyzing the required skills for workers with a technical secondary degree in the public and private sectors, it is evident that the most essential skills are reading and writing, which are needed by 80% of workers. Following closely behind is the ability to effectively handle customer interactions, which is deemed crucial by 77% of employers. Technical skills are also important, ranking sixth with a share of 64%. Surprisingly, foreign language skills are ranked lowest at 7%, with computer skills just slightly higher at 13%. This data is illustrated in Figure 14.

- In order to determine how the quality of skills required in public and private sector establishments varies according to educational level, Appendix (3) Table (3-1) displays the skills needed in both sectors based on educational attainment. The data in the table shows that there is an increase in the skills required in both public and private sectors. The demand for certain skills increases as the educational level of workers improves, while for other skills, the demand increases as educational level decreases. This trend is most evident in numeracy, computer, and language skills, with the highest percentages among those with a university degree. For example, 90.7% of those with a university degree are required to have numeracy skills, 71.9% for computer skills, and 60.1% for language skills. The demand for workforce/manual skills also increases for those with a general secondary/Azhari degree, at 70%.

- Appendix (3) Table (3-2) displays the skills required in public sector establishments according to educational level, showing an increase in the importance of most skills as the educational level of workers increases. This is particularly noticeable for skills such as reading, writing, numeracy, computer, and language skills. The highest percentages for these skills are seen in those with post university qualifications, at 100%, 99.2%, 85.5%, and 95%, respectively.

- The lowest percentages of required technical skills are for those who can only read and write, at around 24%, and the lowest percentage of physical strength/ manual skills are for those with a general secondary/Azhari degree, at about 31%.

- Problem-solving skills and teamwork skills are most commonly required for those with above intermediate qualifications, at percentages of 84.5% and 69.7% respectively.

- The data from Appendix 3 Table 3-3 illustrates the skills required in private sector establishments based on educational level. It reveals that individuals with bachelors degree typically require the highest percentage of various skills for their occupation. This includes technical skills at 75.4%, numeracy skills at 90.4%, language skills at 59.9%, problem-solving skills at 85.1%, communication and presentation skills at 84.5%, and customer service skills at 90.9%.

- Those with a post-university qualification have the highest demand for computer skills, at 71.3%. Individuals with a general secondary/Azhari education are most in need of teamwork skills at 79.2%, and physical strength/manual skills at 70.7%.

- On the other hand, occupations that do not require a formal education have the lowest percentage of required skills. This includes technical skills at 34%, reading and writing skills at 11.5%, numeracy skills at 11.2%, language skills at 0.1%, problem-solving skills at 40.7%, and customer service skills at 44%. Notably, computer skills are not specified for individuals with qualifications lower than general secondary/Azhari.

- The lowest percentages of communication and presentation skills are at 40.5%, while teamwork skills are at 35.9% for individuals who can read and write. The lowest percentage of physical strength/manual skills is for those with a post-university qualification, at 26.2%.

SECTION FIVE

Vacancies

- The results of the survey provide data on the number of workers needed for vacant positions in different occupations, helping to identify the most important fields where job openings exist, whether at the level of the main or subgroups of the occupations. Appendix (4) Table (4-1) displays the number of workers required for vacant position in private sector and public sector/ establishments (Two-digit level). The total estimated number of workers needed is approximately 293,708.Service and sales workers make up the largest percentage of vacant positions at 29.3%, followed by elementary occupations, plant and machine operators, and assemblers at 13.5%. The category with the fewest vacant positions is skilled agricultural, forestry, and fishery workers at just 1.2%, followed by managers at 2.1%.

- Subgroups with the highest number of vacant positions include refuse workers and other elementary workers, accounting for 14% of all vacancies. Personal care workers also have a significant presence in the job market with around 14% of vacant positions.

- Appendix (4) Table (4-2) presents the number of workers needed for open positions in public sector/establishments (Two-digit level). The data shows that the estimated number of workers required at the level of establishments in this sector amounts to 7334 vacant jobs only. The largest proportion of vacancies is found in the main groups of technicians and associate professionals, accounting for 29% of the total vacancies, followed by professionals at 28%. Together, these two groups make up 57% of the vacant jobs. Managers have the fewest vacancies, representing only 0.5% of the total.

- The subgroups with the highest number of vacancies are science and engineering associate professionals, making up 26% of the total vacant jobs, followed by science and engineering professionals at 17.

- The data from Appendix (4), Table (4-3) shows that there are approximately 286,374 vacant jobs in the private sector establishments (Two-digit level), and the estimated number of workers required at the level of establishments in this sector is about 286374 vacant jobs. The highest number of vacancies are in the service and sales workers category which are in offered in the private sector, accounting for 30% of the total vacancies. Following closely behind are elementary occupations, making up 25% of the total vacancies. Together, these two categories represent more than half of the vacant jobs in the private sector. On the other hand, skilled agricultural, forestry, and fishery workers have the lowest number of vacancies among the main categories, with only 1.2% of the total vacancies.

- When looking at subgroups, refuse workers and other elementary workers have the highest number of vacancies, making up approximately 14% of the total vacant jobs.

SECTION SIX

Vacancies according to the required skills

Figure (15) percentage of skills required for vacant jobs in public sector/ establishments versus the private sector

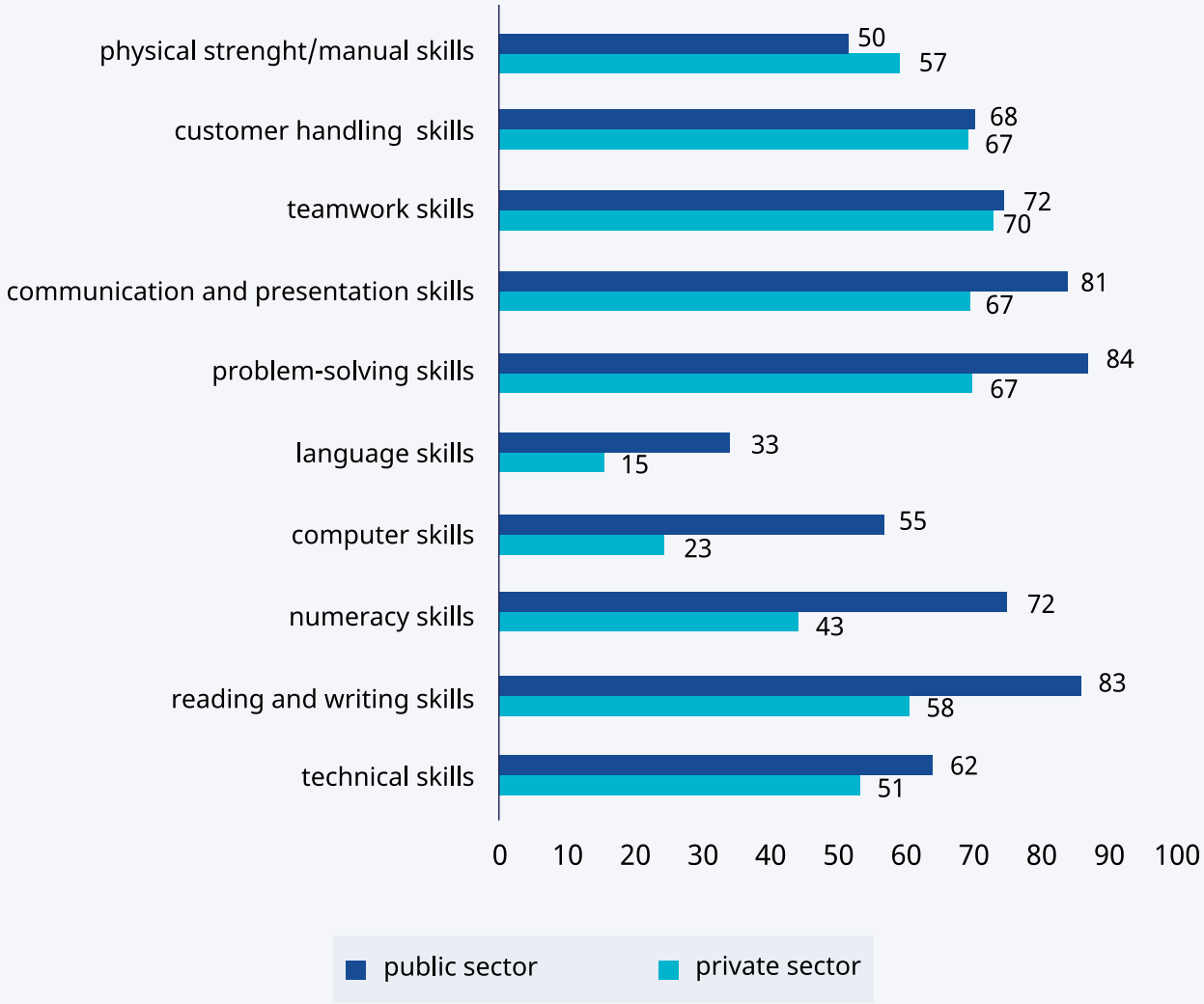
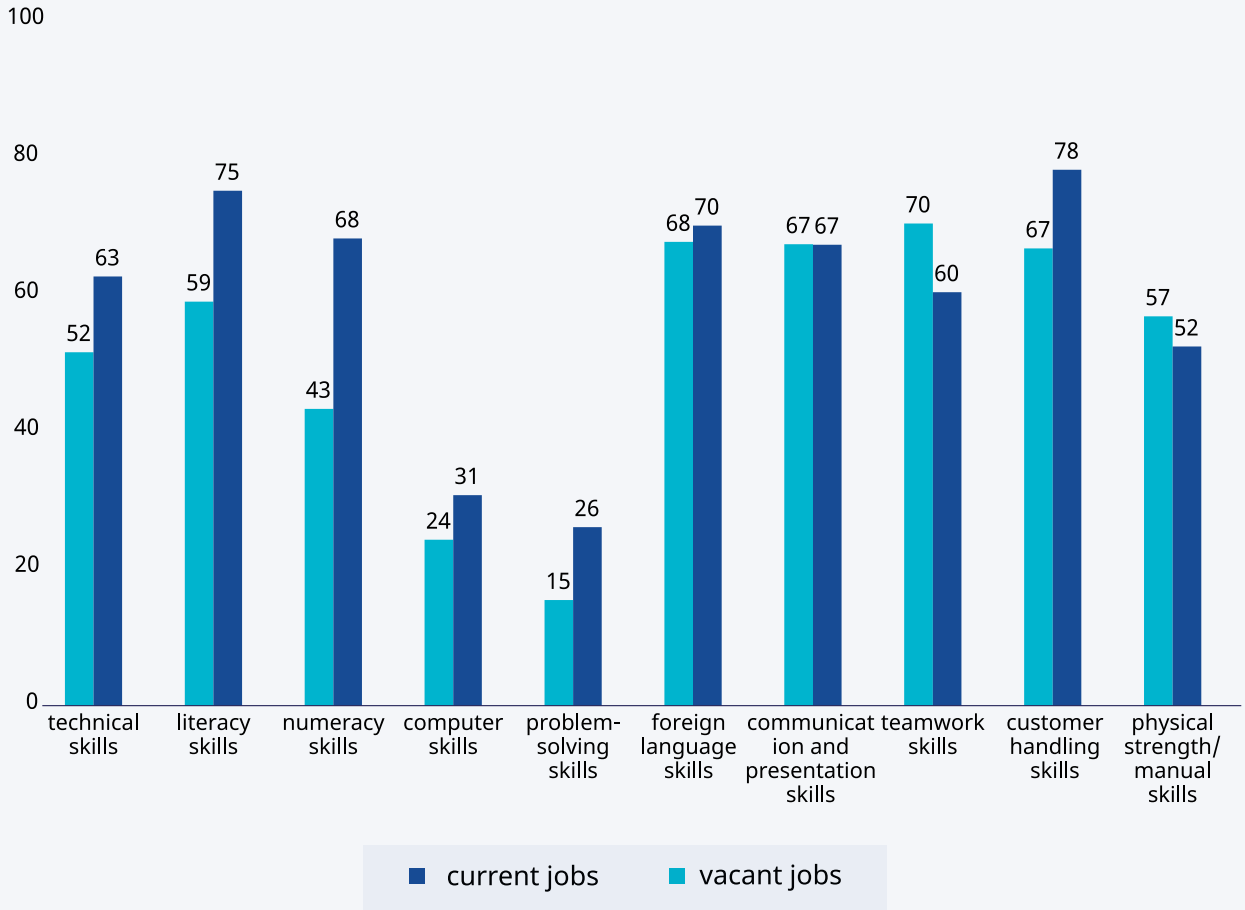


Figure (15) illustrates the percentage of skills needed for vacant positions in public sector/establishments compared to the private sector. Overall, the public sector requires a higher percentage of various skills compared to the private sector, except for physical strength/manual skills, which are higher in the private sector (57% compared to 50% in the public sector).The data shows that problem-solving skills are the most in-demand in the public sector, with a requirement of 84%, while teamwork skills are the most sought after in the private sector, with a requirement of 70%. The disparity in the percentages of computer and numeracy skills needed for vacant positions between the two sectors is significant, with a 31% and 305% difference favoring the public sector.

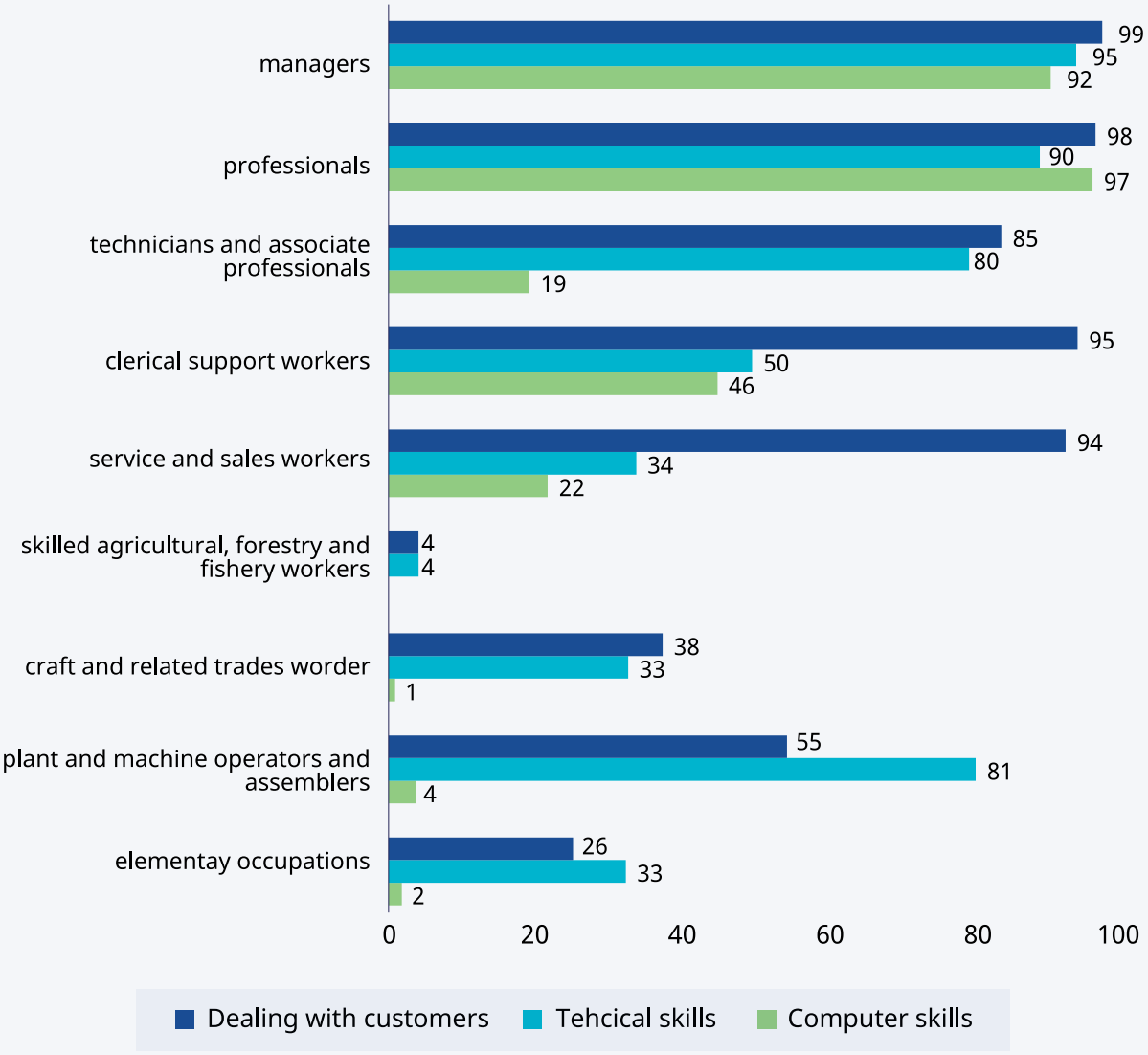
Figure (16) percentage of skills required for current and vacant jobs



A comparison of the skills needed for current and vacant jobs, as depicted in Figure (16), reveals that customer handling skills are the most crucial for individuals in current positions, with a share of 78.3%. On the other hand, teamwork skills are deemed most important for vacant positions, with a share of 70%.

Furthermore, the figure illustrates that communication and presentation skills are equally significant at 67% for both types of roles. However, there is a discrepancy in the percentage of computer skills required. This percentage increases to 31% for current positions but remains at approximately 24% for vacant positions.

Figure (17) the percentage of technical skills, computer skills, and customer dealing skills for vacant jobs in public sector/and private sector according to the main categories of occupations



By comparing the required percentages of technical skills, computer skills, and customer handling skills for vacant jobs in the public sector and private sector establishments across different occupational groups, as shown in figure 17, it is evident that there are certain occupations where technical skills are the most in demand. Specifically, plant and machine operators and assemblers top the list with 81% requiring technical skills and 33% requiring computer skills.

Customer handling skills are most important - ranking first- for managers, professionals, technicians, associate professionals, clerical support workers, service and sales workers, and crafts and related trades workers, with percentages of 99%, 98%, 85%, 95%, 94%, and 38% respectively. In contrast, computer skills do not rank first in any occupation, but are increasingly important for professionals and managers at 97% and 92% respectively.

- Recognizing the varying skill sets needed for different job positions is crucial. Appendix (5) Table (5-1) provides a detailed breakdown of the skills required for vacant roles in the public sector, and private sector based on occupation subgroups (Two-digit level). The data in the table reveals that teamwork skills are the most commonly required, at around 70%, followed by problem-solving skills at approximately 68%. Foreign language skills are shown to be least in demand, at only 15%.

- When looking at the skills needed for different job categories at the level of the main groups except for literacy, managers have the highest demand for all skills except computer and language skills. On the other hand, professionals are in highest demand for computer and language skills, with shares of 97.5% and 51.3%, respectively.

- In the realm of occupation subgroups, assemblers had the highest percentage of vacant jobs requiring technical skills, accounting for 100% of vacancies, while refuse workers and other elementary workers had the lowest at only 4.8%. Numeracy skills were necessary for all vacant jobs in occupations such as business and administration associate professionals, as well as chief executives, senior officials, and legislators. However, the importance of numeracy skills decreased for occupations such as laborers in mining, construction, manufacturing, and transport, with only 0.2% of job vacancies requiring this skill.

- ICT technicians and professionals required computer skills for all their vacant jobs, while occupations like laborers in mining, construction, manufacturing, and transport, as well as handicraft and printing workers, did not require computer skills for all their vacancies.

- Language skills were most in demand for vacant jobs in ICT professionals and health professionals, with a share of 98.4%, while occupations like laborers in mining, construction, manufacturing, and transport did not require any language skills for their vacancies. Vacancies that involved customer interaction were most prominent in business and administration associate professionals, with all vacancies in that occupation requiring this skill, compared to only 0.2% of vacancies in laborers in mining, construction, manufacturing, and transport.

- Appendix 5 Table 5-2 illustrates the skills needed for vacant positions in the public sector and establishments, categorized by subgroups and main groups of occupations. Managerial positions have the highest demand for various skills, including numeracy, computer proficiency, language fluency, communication, and presentation skills for all vacancies, with problem-solving skills at 97%, customer interaction skills at 87%, and reading and writing skills for collaboration with professionals. Plant and machine operators and assemblers have the highest demand for physical strength/ manual skills and technical skills at shares of 84.7% and 82.2%, respectively.

- In terms of subgroups of occupations, health professionals have the most vacant positions requiring technical skills, while building and related trades workers, excluding electricians, do not require this skill at all. Certain occupations, such as managers, require numeracy skills for all vacant positions, while cleaners, helpers, refuse workers, and other elementary workers do not require numeracy, computer, or language skills.

- Cleaners and helpers have the highest demand for physical strength/manual skills, required for all positions in these occupations, while general and keyboard clerks do not require this skill.

- Appendix (5) Table (5-3) shows the skills necessary for vacant jobs in private sector establishments based on the subgroups of occupations (Two-digit level) and main groups of occupations. The data indicates that vacant jobs in the manager category require a high demand for all skills except computer and language skills, where professionals have the highest demand at approximately 98% and 50% respectively. In addition, reading and writing skills are highly sought after for vacant jobs in the manager category as well as for all occupations.

- At the subgroup level, assemblers have the highest demand for technical skills, with 100% of vacant jobs requiring them, while refuse workers and other elementary workers have the lowest demand at only 4.4%. ICT professionals have the highest demand for language skills, with 100% of vacant jobs in this occupation requiring them.

- For manual skills and physical strength, laborers in mining, construction, manufacturing, and transport have the highest demand for those skills, while handicraft and printing workers have the lowest demand at 14.4%. Some occupations, such as health professionals and business and administration associate professionals, require excellent customer service skills with a 100% share ranking first, while laborers in mining, construction, manufacturing, and transport only require this skill in 0.2% of vacant jobs.

» **The analysis refers to occupations based on case higher than 30 observations**

SECTION SEVEN

Vacancies and Educational Level

Figure (18) the relative distribution of vacancies according to the required educational level in public sector/establishments versus the private sector

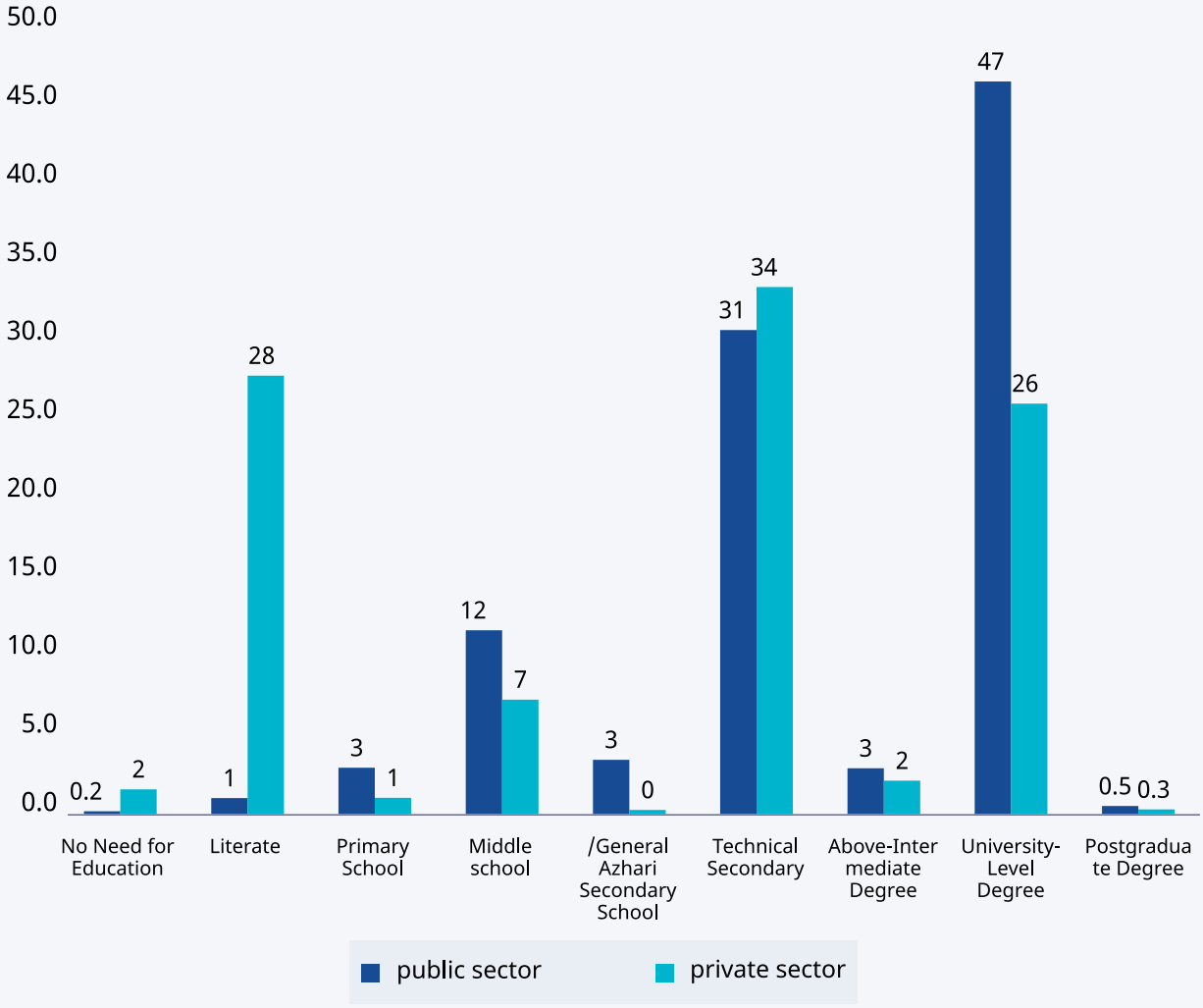


Figure (18) shows the relative distribution of vacancies according to the required educational level in public sector establishments versus the private sector. . It highlights the higher educational level needed for positions in the public sector as opposed to the private sector.

In the public sector/public business, a university-level degree is the most common educational requirement for vacancies at 47%, whereas in the private sector, it is at 26%. The technical secondary level is the second most common educational level in the public sector/at 31%, compared to being the highest requirement in the private sector at 34%.

Postgraduate degrees are only required in 0.5% of vacancies in the public sector, while in the private sector the percentage is slightly lower at 0.3%. In terms of vacancies that do not require any education, the public sector/has a percentage of 0.2% compared to 2% in the private sector. The requirement for reading and writing skills is only 1% in vacancies in the public sector/public business, while it rises significantly to 28% in the private sector.

- The data in Appendix (6), Table (6-1), on the relative distribution of vacancies according to the required educational level in public sector/and private sector establishments, broken down by sub-major groups of occupations (Two-digit level), indicates that the largest percentage of vacancies require a technical secondary education, at 33.5%. Approximately 26.6% of vacancies require a university-level degree, while only 0.3% require a postgraduate degree. There is also a 1.5% of vacancies that do not require any education.

- Among the major groups of occupations, managers have the highest demand for vacancies that require a university-level degree, accounting for around 99% of openings. Professionals follow closely behind at 98.4%, with 1.6% of vacancies in these occupations requiring a postgraduate degree. These two groups do not have any vacancies that require less than a university-level degree. Clerks have the highest demand for technical secondary education, at 61%.

- Vacancies for equipment and machinery operators, as well as assembly workers, are in high demand, exceeding the average share by approximately 8%. Some groups have not provided information on vacancies that do not require formal education. However, elementary occupations have the highest percentage of positions that do not require education, at about 3.8%. Additionally, 65% of these positions require literacy, while 20% require preparatory training.

- At the sub-major group level, ICT professionals have the highest vacancy share, with all positions requiring a university-level degree. Health professionals have the most vacancies that require a postgraduate degree, at a share of 7%. Assembly workers have the highest demand for vacancies that require an above-average degree, with a share of 15.4%.

- Appendix 6, Table 6-2 illustrates the relative distribution of vacancies based on the required educational level in public sector/establishments. The vacancies are categorized by sub-major groups of occupations (Two-digit level). Among the major groups of occupations that necessitate a university-level education, professionals make up the highest proportion of vacancies at 98%, followed closely by Managers at 95%. In contrast, Managers have the highest number of vacancies that specifically require a postgraduate degree, at 5.3%. These two groups only require either a university-level education or a postgraduate education.

- Occupations that require a above intermediate level are in high demand, particularly for clerks, which account for approximately 19% of vacancies among individuals with above-intermediate degrees. For individuals with technical secondary education, the most sought-after vacancies are technicians and assistant professionals, making up about 77.5% of the demand. Vacancies that do not require education are mainly in the service and sales field, with a vacancy share of 3.6%. Among these, workers in elementary occupations hold the highest demand at 11.7%. Some major groups only require reading and writing skills, with equipment and machinery operators and assembly workers being the most sought-after at 3.7%.

- Looking at sub-major groups, certain occupations require a university-level degree for all vacancies (100%). These occupations include health professionals, business and management professionals, ICT professionals, and professionals in science and engineering. A postgraduate degree is required for approximately 3% of these occupations.

- Appendix (6) Table (6-3) displays the relative distribution of vacancies based on educational level in private sector

establishments, categorized by sub-major groups of occupations (Two-digit level). At the major group level, managers require a university-level degree in 99% of vacancies, followed by professionals at 98.4%. These occupations have the highest demand for postgraduate degrees, with 1.6%. Neither managers nor professionals require an education level lower than a university degree. The occupation with the highest vacancy share requiring a technical secondary education is clerks, at 64%. The largest group with vacancies that do not require any education falls under the elementary occupations, approximately 4%.

- At the sub-major group level, ICT professionals have a 100% requirement for a university-level degree for all vacancies. In contrast, health professionals have the highest demand for postgraduate degrees, surpassing other occupations by 7%. Technicians and associate professionals in science and engineering are vacancies that are highly sought-after for above-intermediate degrees, making up around 16% of the vacancies.

» **The analysis refers to occupations based on case higher than 30 observations**

SECTION EIGHT

Vacancies according to required Skills and Educational Level

- The survey contains information on the educational attainment needed for various occupations and the specific skills necessary to identify the most crucial skills for available job positions. Appendix (7) Table (7-1) displays the skills required in public sector, public business, and private sector establishments. The table highlights that individuals with a postgraduate degree require a range of skills at the highest percentages. Specifically, they need reading and writing skills, problem-solving skills, communication skills, and presentation skills, all at 100%. Additionally, they need numeracy skills at 99.2%, computer skills at 98.2%, foreign language skills at 75.5%, and technical skills at 95.9%.

- Postgraduate degree holders require teamwork and customer handling skills the most, with 92.1% and 96.9%, respectively. However, those with physical strength or manual skills above average account for 77.4%. It is important to mention that educational levels below technical secondary do not necessitate computer skills at all.

- Appendix (7) Table (7-2) displays the skills needed for vacancies in the public sector establishments based on educational level. The table reveals that the most sought-after positions for all skills necessitate a postgraduate degree, with 100% for all skills except teamwork skills, which stands at 97.2%, physical strength/manual skills by 94.4%, It is also highlighted that computer skills are not required for individuals without technical secondary education. Furthermore, individuals with a university-level degree require less than half the percentage of language skills needed for those with a postgraduate degree.

- Problem solving, communication, and presentation skills are highly valued in positions that require secondary school or Azhari education, with a 100% demand for these skills at this level.

- Appendix 7, Table 7-3, displays the skills needed for vacancies in private sector establishments based on educational level. The table highlights that individuals with a postgraduate degree are expected to have the highest level of education and possess a variety of skills. These skills include strong reading and writing abilities, problem-solving skills, effective communication and presentation skills, all of which are necessary at a 100% share. Additionally, skills, numeracy skills, computer skills, and language proficiency are required at shares of 95.7%, 99.2%, 98.1%, and 74.4%, respectively.

- It is worth noting that computer skills are not a requirement for individuals with education levels below secondary technical education.

- The majority of vacancies require teamwork skills, with 92.4% and 97.3% of them requiring a university-level degree and customer handling skills, respectively. The highest percentage of vacancies that require physical/manual skills is 78.1% for those with an above-intermediate degree.

SECTION NINE

Net Employment Change share and Labour Turnover share

Figure (19) Labour Turnover share in public sector and private sector establishments

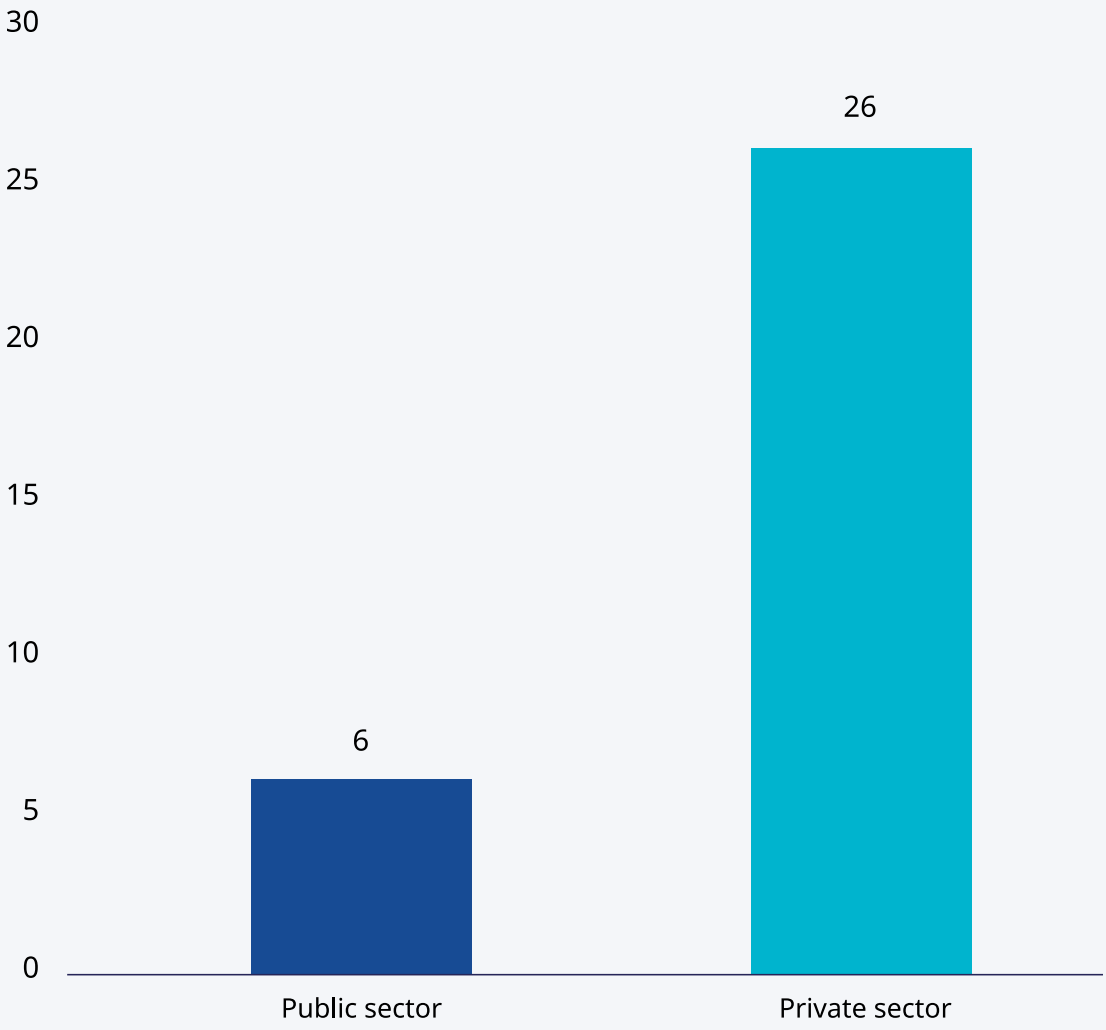


Figure (19) shows the labor turnover share in public sector and private sector establishments and indicates that the turnover share in private sector establishments is more than four times that of the public sector/public business, reaching 26% in private sector establishments compared to only 6% for the public sector, with a difference of 20 percentage points.

- Appendix 8, Table 8-1 displays the net employment change share and labor turnover share in public sector and private sector establishments based on the sub-major groups of occupations (Two-digit level). It is evident that the turnover share reaches 25.2% in both public sector and private sector establishments.

- When looking at the major occupational groups, workers in elementary occupations have the highest turnover share at approximately 49%, followed by factory operators, machine operators, and assembly workers of production components at 47%. In contrast, managers have the lowest turnover share at 2.5%. Within the sub-major groups, miners and construction workers have the highest turnover share reaching about 119 %.

- Appendix (8) Table (8-2) shows the net employment change share and labor turnover share in public sector establishments according to the sub-major groups of occupations (the second digital level), from which it is clear that the turnover share in this sector reaches 6.1%.

- When looking at major occupational groups, it is evident that clerks have the highest turnover share at approximately 9.9%, followed by factory operators, machine operators, and assembly workers of production components at up to 8%. Managers, workers in elementary occupations, and professionals all have a turnover share of around 4%. The sub-major group with the highest turnover share is workers assembling, installing, and operating automatic machines, with a share of 36.5%.

- Appendix (8) Table (8-3) displays the net employment change share and labor turnover share in private sector establishments categorized by sub-major groups of occupations (Two-digit Level). It is evident that the labor turnover share can be as high as 26.2% in private sector establishments.

- Looking at the major occupational groups, workers in elementary occupations have the highest turnover share at 49.4%, followed by factory operators, machine operators, and assembly workers of production components at 48.5%. Conversely, managers have the lowest turnover share at only 2.4%. The sub-major groups with the highest turnover share include miners, construction, manufacturing, and transport, reaching 120.7%.

Appendix (1)

(1-1) Skills required for current jobs in private sector and public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	52.4	78.3	60.4	67.3	70.1	26.1	30.8	68.2	75.2	62.7	13856190	33875	الإجمالى	
Managers	47.1	88.6	79.4	84.5	87.9	58.7	69.8	91.5	91.7	75.0	1591936	3703	المديرون	1
Chief Executives, Senior Officials and Legislators	56.3	84.0	83.1	89.3	88.0	73.8	83.9	96.8	98.7	81.9	182537	1084	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	46.8	90.8	87.0	83.3	87.7	76.7	82.1	89.1	84.7	77.0	610323	1655	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	57.4	95.5	74.3	88.9	94.0	69.5	60.6	89.8	89.5	89.4	308258	636	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	37.4	83.2	71.6	81.4	84.4	23.8	55.1	93.5	99.2	60.7	490818	328	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	40.7	87.5	73.1	85.7	83.7	69.2	78.2	88.0	94.5	71.1	1623265	6589	الأخصائيون	2
Science and Engineering Professionals	66.0	85.6	82.1	90.1	92.7	81.7	88.0	96.4	98.3	89.7	250460	1356	الأخصائيون فى العلوم والهندسة	21
Health Professionals	41.5	92.1	92.1	97.7	92.2	97.6	91.3	97.8	93.4	72.6	250559	505	الأخصائيون في الصحة	22
Teaching Professionals	28.7	83.7	77.6	95.3	83.4	70.1	59.7	81.6	93.5	67.0	139961	1349	الأخصائيون في التعليم	23
Business and Administration Professionals	29.8	85.6	58.7	82.7	74.1	56.6	76.6	92.2	92.8	65.5	772814	2821	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	42.9	79.4	79.4	90.8	95.3	87.3	95.9	94.4	95.5	69.6	24565	211	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	59.9	95.7	91.3	68.0	98.2	63.2	65.1	49.7	98.5	70.6	184907	347	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	61.7	69.0	62.2	67.2	76.1	22.7	25.9	67.5	86.1	71.6	1173010	5222	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	70.3	64.5	56.9	62.6	76.6	19.2	24.2	66.4	87.4	81.3	745607	3516	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	41.6	70.6	71.1	76.7	67.4	28.8	16.2	63.6	83.1	57.8	119115	626	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	30.6	83.2	71.6	79.6	78.5	28.2	51.1	75.7	90.8	40.8	181491	675	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	74.1	73.7	72.2	67.7	77.3	27.8	5.2	64.7	74.1	71.1	120856	362	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	87.1	70.6	65.1	70.8	76.6	74.4	77.4	80.1	92.3	80.9	5941	43	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	28.8	85.6	64.8	79.8	81.3	43.3	55.9	89.3	90.8	62.9	1397721	3889	الكتبة	4
General and Keyboard Clerks	20.0	89.0	53.2	84.4	58.0	36.6	51.0	94.8	94.9	68.9	178143	653	الكتبة العامون والطابعون	41
Customer Services Clerks	25.8	92.9	73.1	89.5	91.5	75.3	73.5	97.0	96.4	77.4	408782	868	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	34.9	72.2	48.2	57.7	70.3	16.5	34.6	72.5	78.1	33.4	396001	1022	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	29.5	89.6	77.2	89.2	91.6	40.2	61.0	95.5	95.8	74.4	414795	1346	الكتبة الآخرون	44

(1-1) Skills required for current jobs in private sector and public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	53.1	86.7	52.9	64.7	63.9	11.0	12.3	65.8	72.0	54.2	4497992	4560	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	62.0	75.7	52.9	53.1	57.8	9.7	6.1	41.5	50.1	57.5	996421	2071	العاملون في الخدمات الشخصية	51
Sales Workers	53.0	90.0	55.3	70.8	69.1	10.3	13.5	75.4	79.1	52.8	3089013	1241	العاملون في المبيعات	52
Personal Care Workers	20.3	94.4	22.1	88.9	19.2	77.6	75.4	84.5	89.7	39.4	78696	69	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	35.6	86.6	38.1	37.0	44.2	5.4	5.5	44.5	67.6	60.9	333862	1179	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	92.4	61.4	73.9	44.4	60.0	1.4	0.3	73.4	46.3	58.4	152782	155	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	92.4	61.4	73.9	44.4	60.0	1.4	0.3	73.4	46.3	58.4	152775	154	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	64.8	62.1	50.7	50.6	61.1	3.7	6.5	42.0	49.0	71.1	1314969	2925	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	47.5	40.1	40.4	46.0	47.0	9.1	2.2	36.6	34.0	80.2	96904	378	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	67.2	79.4	46.8	62.3	67.6	1.5	12.8	38.6	55.1	68.3	376825	698	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	67.8	29.3	30.6	31.6	35.4	4.1	5.1	19.4	26.1	25.2	141854	448	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	38.6	31.5	33.6	31.0	35.2	20.3	20.7	33.7	34.5	88.7	96961	201	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	69.6	67.6	62.2	51.6	69.6	1.4	1.4	51.6	55.4	79.3	602426	1200	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	73.4	45.9	58.0	55.8	62.0	6.9	4.7	44.1	58.1	67.2	864025	4660	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	74.8	36.6	57.6	53.6	57.3	7.2	4.7	39.0	51.1	62.6	611816	2921	مشغلو المعدات والآلات الثابتة	81
Assemblers	83.9	61.9	76.6	54.8	86.1	16.7	11.3	40.4	58.0	83.6	26247	235	اخصائيون مساعدو في الأعمال والإدارة	82
Drivers and Mobile Plant Operators	68.5	69.3	57.0	61.8	71.7	5.2	3.8	58.1	77.1	77.8	225962	1504	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	57.4	64.6	49.9	45.4	50.3	6.3	9.2	42.6	55.4	46.3	1240489	2172	العاملون في المهن الأولية	9
Cleaners and Helpers	53.4	57.8	43.4	39.7	41.8	2.7	2.2	27.9	45.3	34.1	460731	976	عاملو النظافة والمساعدون	91
Agricultural, Forestry and Fishery Labourers	28.1	16.5	29.5	24.7	23.3	1.0	0.0	0.0	28.1	94.2	7774	22	عاملو الزراعة والحراجة والصيد المائي	92
Labourers in Mining, Construction, Manufacturing and Transport	43.5	36.5	29.1	23.7	24.4	10.2	4.5	36.8	40.3	33.8	80824	164	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	56.6	62.6	53.7	57.0	49.4	11.9	3.2	53.3	55.1	57.1	79682	242	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	63.9	73.6	58.5	52.2	61.6	8.1	16.4	54.5	66.7	56.3	595594	761	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(1-2) Skills required for current jobs in public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	43.6	60.0	57.2	53.8	68.5	42.0	50.5	82.1	89.0	56.3	665083	7422	الإجمالى	
Managers	39.2	66.9	68.1	69.1	77.4	67.8	83.5	95.5	98.3	60.4	107306	1302	المديرون	1
Chief Executives, Senior Officials and Legislators	48.9	71.4	72.1	72.3	81.4	65.1	79.2	94.4	97.8	68.2	59494	705	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	29.0	62.0	62.7	65.6	72.4	74.3	90.3	96.4	98.8	51.0	40295	472	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	17.1	56.0	66.6	62.1	72.2	55.1	81.1	99.6	99.6	48.8	7042	104	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	8.4	83.2	55.0	60.4	72.3	38.8	70.0	93.4	100.0	38.0	475	21	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	30.9	67.8	56.7	58.1	71.4	64.6	76.9	95.3	98.9	61.4	152913	1307	الأخصائيون	2
Science and Engineering Professionals	45.4	79.7	63.8	68.8	80.3	80.1	80.1	95.8	98.8	76.0	54386	342	الأخصائيون فى العلوم والهندسة	21
Health Professionals	16.2	51.2	36.6	62.8	61.9	95.3	86.7	86.6	99.6	41.7	2886	32	الأخصائيون في الصحة	22
Business and Administration Professionals	23.1	59.2	54.3	53.7	63.1	53.2	75.5	96.2	99.3	53.0	78588	768	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	65.2	87.4	66.1	85.2	94.8	79.9	99.5	94.7	95.5	80.9	4045	62	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	9.4	67.8	43.0	30.9	78.9	56.5	63.2	90.2	97.5	49.2	12978	102	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	59.7	61.4	64.4	57.3	73.4	36.2	39.1	80.0	91.0	63.8	147403	1419	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	61.5	59.8	64.7	57.2	72.6	33.7	36.5	79.5	90.6	64.9	130213	1163	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	50.3	58.2	42.4	42.5	70.0	30.6	18.7	54.3	79.3	43.1	3778	51	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	40.2	79.8	69.6	63.2	82.1	62.3	70.9	94.8	98.8	57.6	11694	172	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	60.1	80.6	75.8	73.3	95.1	78.3	78.3	84.9	100.0	73.9	584	11	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	77.3	51.3	47.0	46.8	76.8	51.6	58.2	61.7	92.6	74.0	1134	22	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	28.8	62.4	55.4	56.9	65.9	43.4	57.3	84.4	92.0	45.9	93920	1242	الكتبة	4
General and Keyboard Clerks	27.8	54.7	49.5	57.6	65.2	45.0	56.5	76.9	83.4	44.2	17588	233	الكتبة العامون والطابعون	41
Customer Services Clerks	21.5	58.7	46.3	48.3	60.0	42.4	57.5	81.8	91.2	27.6	15358	157	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	31.3	61.2	56.6	55.5	60.4	34.2	49.8	88.7	91.1	47.8	21214	366	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	30.8	67.8	60.9	60.7	71.4	48.0	61.7	86.5	96.6	52.7	39759	486	الكتبة الآخرون	44

(1-2) Skills required for current jobs in public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	34.2	53.8	39.7	42.6	51.0	10.9	15.9	59.0	66.9	35.7	55507	830	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	31.1	43.0	26.1	31.2	37.6	6.0	7.1	58.2	60.6	33.2	24756	284	العاملون في الخدمات الشخصية	51
Sales Workers	24.4	54.6	40.9	40.1	54.9	16.6	19.7	48.0	61.6	40.7	6544	154	العاملون في المبيعات	52
Protective Services Workers	40.1	64.6	53.4	54.9	63.7	14.4	23.8	62.9	74.9	36.9	24194	391	العاملون في مجال الرعاية الشخصية	54
CRAFT AND RELATED TRADES WORKERS	69.4	30.6	52.4	28.8	65.0	4.9	4.0	63.8	71.7	59.1	46241	544	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	67.4	40.5	55.9	25.8	54.5	9.9	5.8	59.0	73.3	58.8	9183	109	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	69.6	38.2	38.6	34.4	73.4	4.1	1.0	60.0	68.8	64.7	17215	228	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	70.9	80.6	70.2	68.1	76.4	13.5	22.3	71.4	84.4	75.7	692	44	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	61.2	22.6	45.9	25.6	60.9	2.3	3.9	64.4	70.9	31.6	10543	75	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	81.1	10.4	82.6	21.3	63.5	3.9	6.9	75.2	75.8	80.3	8608	88	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	60.8	44.7	45.5	31.9	61.8	7.4	8.2	64.4	74.4	58.1	46841	590	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	68.4	33.9	50.7	40.7	69.7	12.2	13.8	79.4	85.9	73.7	16864	175	مشغلو المعدات والآلات الثابتة	81
Assemblers	37.4	49.4	24.1	33.1	49.1	0.0	34.5	73.1	70.0	54.0	307	11	عاملو التجميع	82
Drivers and Mobile Plant Operators	56.7	50.7	42.7	27.0	57.5	4.7	4.7	55.8	67.9	49.2	29670	404	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	40.3	66.3	37.7	32.9	37.9	12.6	18.3	53.3	62.1	28.4	14509	179	العاملون في المهن الأولية	9
Cleaners and Helpers	57.2	62.1	25.9	16.7	23.5	13.3	12.7	33.5	45.7	1.7	5229	44	عاملو النظافة والمساعدون	91
Labourers in Mining, Construction, Manufacturing and Transport	16.9	72.7	10.7	12.2	16.2	1.3	1.6	4.9	14.1	17.7	1016	20	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Refuse Workers and Other Elementary Workers	30.6	68.1	43.6	42.2	44.9	10.8	22.1	70.3	76.3	43.8	7552	108	عاملو النفايات وعاملو المهن الأولية الاخرون	96

(1-3) Skills required for current jobs in private sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	52.9	79.2	60.5	68.0	70.2	25.3	29.8	67.5	74.5	63.0	13191107	26453	الإجمالى	
Managers	47.6	90.2	80.2	85.6	88.7	58.0	68.9	91.2	91.2	76.0	1484630	2401	المديرون	1
Chief Executives, Senior Officials and Legislators	59.9	90.1	88.4	97.5	91.2	77.9	86.2	97.9	99.2	88.4	123044	379	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	48.1	92.9	88.8	84.6	88.8	76.9	81.5	88.6	83.7	78.9	570028	1183	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	58.3	96.4	74.5	89.5	94.5	69.8	60.1	89.5	89.2	90.4	301215	532	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	37.5	83.2	71.7	81.5	84.4	23.8	55.1	93.5	99.2	60.7	490343	307	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	41.7	89.5	74.8	88.5	84.9	69.7	78.3	87.2	94.0	72.1	1470352	5282	الأخصائيون	2
Science and Engineering Professionals	71.7	87.3	87.2	96.0	96.2	82.2	90.2	96.6	98.2	93.5	196073	1014	الأخصائيون فى العلوم والهندسة	21
Health Professionals	41.8	92.5	92.7	98.1	92.6	97.7	91.4	97.9	93.3	73.0	247673	473	الأخصائيون في الصحة	22
Teaching Professionals	28.7	83.7	77.6	95.3	83.4	70.1	59.7	81.6	93.5	67.0	139931	1348	الأخصائيون في التعليم	23
Business and Administration Professionals	30.5	88.6	59.2	86.0	75.4	57.0	76.7	91.7	92.0	66.9	694226	2053	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	38.6	77.8	82.0	91.9	95.4	88.7	95.2	94.3	95.5	67.4	20520	149	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	63.7	97.8	94.9	70.8	99.7	63.7	65.3	46.6	98.6	72.3	171930	245	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	62.0	70.1	61.9	68.6	76.4	20.8	24.0	65.7	85.4	72.7	1025607	3803	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	72.2	65.5	55.2	63.7	77.5	16.2	21.6	63.6	86.7	84.7	615395	2353	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	41.4	71.1	72.1	77.9	67.3	28.7	16.1	63.9	83.2	58.3	115337	575	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	29.9	83.4	71.7	80.7	78.3	25.8	49.7	74.4	90.2	39.6	169797	503	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	74.2	73.7	72.2	67.7	77.2	27.6	4.8	64.6	73.9	71.1	120271	351	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	89.4	75.1	69.4	76.5	76.6	79.7	82.0	84.4	92.2	82.5	4808	21	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	28.8	87.2	65.4	81.4	82.4	43.3	55.8	89.7	90.8	64.2	1303801	2647	الكتبة	4
General and Keyboard Clerks	19.2	92.8	53.6	87.3	57.2	35.6	50.4	96.8	96.1	71.6	160555	420	الكتبة العامون والطابعون	41
Customer Services Clerks	26.0	94.3	74.2	91.1	92.7	76.6	74.1	97.6	96.6	79.3	393423	711	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	35.1	72.8	47.8	57.8	70.9	15.5	33.8	71.6	77.3	32.6	374787	656	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	29.4	91.9	78.9	92.3	93.8	39.4	61.0	96.5	95.7	76.7	375036	860	الكتبة الآخرون	44

(1-3) Skills required for current jobs in private sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	53.4	87.1	53.1	65.0	64.0	11.0	12.3	65.8	72.0	54.4	4442485	3730	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	62.7	76.5	53.6	53.7	58.3	9.8	6.1	41.1	49.8	58.1	971665	1787	العاملون في الخدمات الشخصية	51
Sales Workers	53.1	90.1	55.3	70.9	69.1	10.3	13.5	75.5	79.1	52.8	3082469	1087	العاملون في المبيعات	52
Personal Care Workers	20.3	94.4	22.1	88.9	19.2	77.6	75.4	84.5	89.7	39.4	78684	68	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	35.2	88.3	36.9	35.7	42.6	4.7	4.1	43.0	67.0	62.8	309667	788	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	92.5	61.4	73.9	44.3	60.0	1.4	0.3	73.5	46.2	58.5	152340	146	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	92.5	61.4	73.9	44.3	60.0	1.4	0.3	73.5	46.2	58.5	152340	146	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	64.7	63.3	50.6	51.4	61.0	3.6	6.6	41.2	48.2	71.5	1268728	2381	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	45.5	40.1	38.8	48.1	46.2	9.0	1.8	34.3	29.9	82.4	87721	269	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	67.1	81.3	47.2	63.6	67.4	1.3	13.3	37.6	54.4	68.5	359610	470	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	67.8	29.0	30.4	31.4	35.2	4.0	5.0	19.2	25.8	25.0	141162	404	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	35.9	32.6	32.1	31.6	32.0	22.5	22.7	29.9	30.0	95.7	86417	126	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	69.5	68.4	61.9	52.0	69.7	1.4	1.3	51.2	55.1	79.3	593817	1112	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	74.2	46.0	58.7	57.2	62.0	6.9	4.5	42.9	57.2	67.7	817184	4070	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	75.0	36.7	57.8	54.0	57.0	7.0	4.4	37.9	50.1	62.3	594952	2746	مشغلو المعدات والآلات الثابتة	81
Assemblers	84.4	62.0	77.2	55.0	86.5	16.9	11.1	40.0	57.9	84.0	25940	224	اخصائيون مساعدو في الأعمال والإدارة	82
Drivers and Mobile Plant Operators	70.3	72.1	59.1	67.1	73.8	5.2	3.7	58.4	78.5	82.1	196292	1100	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	57.6	64.5	50.1	45.5	50.4	6.2	9.1	42.4	55.3	46.6	1225980	1993	العاملون في المهن الأولية	9
Cleaners and Helpers	53.3	57.7	43.6	39.9	42.0	2.6	2.0	27.8	45.3	34.4	455502	932	عاملو النظافة والمساعدون	91
Agricultural, Forestry and Fishery Labourers	28.0	16.5	29.5	24.7	23.3	1.0	0.0	0.0	28.1	94.2	7773	21	عاملو الزراعة والحراجة والصيد المائي	92
Labourers in Mining, Construction, Manufacturing and Transport	43.9	36.0	29.4	23.8	24.5	10.3	4.6	37.2	40.6	34.0	79808	144	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	56.6	62.6	53.3	56.8	49.0	11.6	2.9	53.0	54.7	56.9	78971	236	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	64.3	73.6	58.7	52.3	61.9	8.0	16.4	54.3	66.5	56.4	588041	653	عاملو النفايات وعاملو المهن الأولية الآخرون	96

Appendix (2)

(2-1) Distribution of current jobs by the educational level required in private sector and public sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	100	1.6	35.3	5.9	34.0	1.6	9.2	1.7	7.6	3.2	13856190	33875	الإجمالى	
Managers	100	1.5	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1591936	3703	المديرون	1
Chief Executives, Senior Officials and Legislators	100	5.0	95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182537	1084	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	100	1.4	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	610323	1655	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	100	1.3	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	308258	636	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	100	0.5	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	490818	328	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	100	7.7	92.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1623265	6589	الأخصائيون	2
Science and Engineering Professionals	100	3.7	96.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250460	1356	الأخصائيون فى العلوم والهندسة	21
Health Professionals	100	15.5	84.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250559	505	الأخصائيون في الصحة	22
Teaching Professionals	100	6.9	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139961	1349	الأخصائيون في التعليم	23
Business and Administration Professionals	100	8.6	91.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	772814	2821	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	100	1.5	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24565	211	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	100	0.2	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184907	347	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	100	0.3	17.8	18.6	56.8	1.1	1.2	1.4	2.2	0.6	1173010	5222	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	100	0.3	7.9	16.3	70.2	0.9	0.7	1.3	1.7	0.6	745607	3516	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	100	0.2	10.1	34.3	53.8	0.1	0.6	0.0	0.2	0.6	119115	626	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	100	0.6	49.0	25.8	23.1	0.7	0.0	0.0	0.7	0.0	181491	675	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	100	0.1	36.9	7.3	29.1	3.6	6.7	5.2	9.3	1.7	120856	362	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	100	0.0	74.0	3.5	22.5	0.0	0.0	0.0	0.0	0.0	5941	43	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	100	0.4	56.1	10.9	26.7	1.6	0.3	0.0	3.9	0.0	1397721	3889	الكتبة	4
General and Keyboard Clerks	100	0.3	77.1	4.9	16.9	0.8	0.0	0.0	0.0	0.0	178143	653	الكتبة العامون والطابعون	41
Customer Services Clerks	100	0.6	75.3	6.1	17.5	0.2	0.3	0.0	0.0	0.0	408782	868	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	100	0.5	28.1	22.9	29.5	4.8	0.3	0.2	13.7	0.0	396001	1022	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	100	0.2	55.1	6.6	37.4	0.3	0.4	0.0	0.0	0.0	414795	1346	الكتبة الآخرون	44

(2-1) Distribution of current jobs by the educational level required in private sector and public sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	1.4	16.3	5.1	46.4	1.6	14.7	1.6	11.2	1.7	4497992	4560	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.3	9.6	4.8	29.4	2.2	30.0	4.9	17.4	1.4	996421	2071	العاملون في الخدمات الشخصي	51
Sales Workers	100	2.0	16.7	5.6	53.1	1.1	10.7	0.4	8.5	1.9	3089013	1241	العاملون في المبيعات	52
Personal Care Workers	100	0.0	77.4	0.7	11.7	0.3	3.5	4.2	2.1	0.0	78696	69	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	100	0.0	18.5	2.4	42.5	4.4	9.0	1.5	20.2	1.5	333862	1179	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100	0.0	0.4	2.0	33.0	14.7	17.4	4.6	19.4	8.6	152782	155	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	100	0.0	0.4	2.0	33.0	14.7	17.4	4.6	19.4	8.6	152775	154	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	100	0.1	1.0	5.9	51.7	2.0	11.2	5.7	10.9	11.5	1314969	2925	العاملون في البناء ومن إليهم (عدا الكهرباء)	7
Building and Related Trades Workers (excluding Electricians)	100	0.8	0.4	1.1	68.1	1.4	15.9	8.8	2.7	0.8	96904	378	الحرفيون ومن إليهم	71
Metal, Machinery and Related Trades Workers	100	0.0	0.2	7.9	70.2	0.2	5.7	1.7	13.4	0.7	376825	698	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	100	0.0	0.4	0.5	35.5	1.2	17.7	0.8	6.0	37.8	141854	448	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	100	0.0	0.4	2.5	34.4	0.6	2.1	2.7	2.8	54.5	96961	201	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.1	1.7	7.2	44.2	3.6	13.8	9.3	13.1	6.9	602426	1200	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	100	0.3	1.2	4.4	55.7	1.9	10.9	3.7	14.3	7.5	864025	4660	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	100	0.4	0.8	4.9	55.4	1.3	7.8	3.4	15.6	10.3	611816	2921	مشغلو المعدات والآلات الثابتة	81
Assemblers	100	0.0	1.1	1.9	48.4	8.2	7.3	1.7	30.5	0.9	26247	235	عاملو التجميع	82
Drivers and Mobile Plant Operators	100	0.0	2.3	3.5	57.6	2.9	19.7	4.6	8.8	0.6	225962	1504	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	100	0.1	5.9	7.6	30.0	3.7	25.9	2.7	14.1	10.2	1240489	2172	العاملون في المهن الأولية	9
Cleaners and Helpers	100	0.0	0.0	4.9	27.9	1.2	36.8	3.8	12.3	13.1	7774	976	عاملو النظافة والمساعدون	91
Agricultural, Forestry and Fishery Labourers	100	0.0	0.0	0.0	35.7	27.5	27.6	3.8	5.4	0.0	460731	22	عاملو الزراعة والحراجة والصيد المائي	92
Labourers in Mining, Construction, Manufacturing and Transport	100	0.0	0.5	0.6	36.0	0.5	6.2	1.1	53.6	1.6	80824	164	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	100	0.0	0.9	10.4	38.9	2.2	29.0	3.9	9.1	5.6	79682	242	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	100	0.2	12.0	10.5	30.0	6.0	20.4	2.0	11.2	7.8	595594	761	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(2-2) Distribution of current jobs by the educational level required in public sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	100	1.4	48.1	7.2	33.8	0.8	4.3	1.9	2.4	0.0	665083	7422	الإجمالى	
Managers	100	3.6	96.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107306	1302	المديرون	1
Chief Executives, Senior Officials and Legislators	100	5.3	94.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59494	705	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	100	0.5	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40295	472	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	100	7.2	92.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7042	104	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	475	21	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	100	3.1	96.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	152913	1307	الأخصائيون	2
Science and Engineering Professionals	100	5.7	94.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54386	342	الأخصائيون فى العلوم والهندسة	21
Health Professionals	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2886	32	الأخصائيون في الصحة	22
Business and Administration Professionals	100	1.5	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78588	768	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	100	7.9	92.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4045	62	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	100	1.3	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12978	102	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	100	0.1	11.2	15.5	70.0	0.3	1.8	0.9	0.3	0.0	147403	1419	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	100	0.0	7.2	14.8	74.5	0.3	2.0	1.0	0.3	0.0	130213	1163	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	100	0.0	17.9	29.3	51.1	0.9	0.0	0.0	0.8	0.0	3778	51	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	100	0.8	47.6	20.5	30.7	0.0	0.4	0.0	0.0	0.0	11694	172	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	100	0.0	53.3	0.7	30.0	0.0	1.6	14.4	0.0	0.0	584	11	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	100	0.0	49.1	9.9	41.0	0.0	0.0	0.0	0.0	0.0	1134	22	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	100	0.4	44.2	10.8	40.1	2.5	1.2	0.6	0.1	0.0	93920	1242	الكتبة	4
General and Keyboard Clerks	100	0.1	43.8	12.9	35.7	7.5	0.1	0.0	0.0	0.0	17588	233	الكتبة العامون والطابعون	41
Customer Services Clerks	100	0.2	45.0	8.7	43.9	0.0	2.1	0.0	0.1	0.0	15358	157	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	100	0.0	30.8	15.2	47.6	1.3	2.0	2.7	0.4	0.0	21214	366	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	100	0.8	51.3	8.5	36.5	1.9	0.9	0.1	0.0	0.0	39759	486	الكتبة الآخرون	44

(2-2) Distribution of current jobs by the educational level required in public sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	0.9	14.2	8.9	37.6	1.6	18.7	6.6	11.6	0.0	55507	830	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.0	4.5	3.7	32.3	0.8	35.5	8.5	14.8	0.0	24756	284	العاملون في الخدمات الشخصي	51
Sales Workers	100	7.8	26.3	19.3	35.9	0.4	2.7	5.1	2.4	0.0	6544	154	العاملون في المبيعات	52
Personal Care Workers	100	0.0	20.9	11.4	43.5	2.7	5.8	5.0	10.7	0.0	24194	391	العاملون في الحماية والخدمات الوقائية	54
Protective Services Workers	100	0.0	10.5	0.0	15.2	0.0	34.0	0.0	33.1	7.2	442	*	العمال المهرة في الزراعة والغابات والصيد	6
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100	0.0	10.7	0.0	13.9	0.0	34.6	0.0	33.6	7.3	435	*	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
Market-oriented Skilled Agricultural Workers	100	0.0	2.0	7.8	62.9	1.5	13.8	7.7	4.3	0.0	46241	544	العاملون في البناء ومن إليهم (عدا الكهرباء)	7
CRAFT AND RELATED TRADES WORKERS	100	0.0	2.4	3.0	56.8	0.0	27.1	4.1	6.7	0.0	9183	109	الحرفيون ومن إليهم	71
Building and Related Trades Workers (excluding Electricians)	100	0.0	1.9	16.4	64.9	0.0	8.0	6.7	2.0	0.0	17215	228	عمال الصناعات المعدنية والآلات ومن إليهم	72
Metal, Machinery and Related Trades Workers	100	0.0	16.0	11.2	51.8	0.0	0.0	15.6	5.4	0.0	692	44	عمال الصناعة التقليدية والطباعة	73
Handicraft and Printing Workers	100	0.0	0.6	2.8	55.9	2.5	18.3	10.5	9.4	0.0	10543	75	العاملون في المهن الكهربائية والالكترونية	74
Electrical and Electronic Trades Workers	100	0.0	2.5	1.4	74.8	5.0	6.8	9.3	0.1	0.0	8608	88	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.0	2.5	11.0	59.6	1.3	10.4	5.3	9.3	0.5	46841	590	مشغلو المعدات والآلات وعمال التجميع	8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	100	0.0	3.8	15.7	61.8	0.0	6.4	2.5	9.7	0.0	16864	175	مشغلو المعدات والآلات الثابتة	81
Stationary Plant and Machine Operators	100	0.0	34.5	0.0	23.9	0.0	8.4	13.4	19.8	0.0	307	11	اخصائيون مساعدو في الأعمال والإدارة	82
Assemblers	100	0.0	1.4	8.4	58.7	2.1	12.7	6.8	9.1	0.8	29670	404	السائقون ومشغلو المعدات المتنقلة	83
Drivers and Mobile Plant Operators	100	0.0	1.7	9.0	40.9	2.7	21.9	7.3	16.4	0.0	14509	179	العاملون في المهن الأولية	9
ELEMENTARY OCCUPATIONS	100	0.0	0.0	0.0	19.4	0.0	46.6	8.4	25.6	0.0	5229	44	عاملو النظافة والمساعدون	91
Cleaners and Helpers	100	0.0	0.9	1.4	54.5	0.0	8.5	30.3	4.3	0.0	1016	20	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Labourers in Mining, Construction, Manufacturing and Transport	100	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	711	*	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	100	0.0	3.2	17.1	48.4	5.1	8.7	4.2	13.3	0.0	7552	108	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(2-3) Distribution of current jobs by the educational level required in private sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
Total	100	1.7	34.7	5.8	34.0	1.6	9.4	1.7	7.9	3.3	13191107	26453	الإجمالى	
Managers	100	1.3	98.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1484630	2401	المديرون	1
Chief Executives, Senior Officials and Legislators	100	4.9	95.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123044	379	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	100	1.4	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	570028	1183	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	100	1.2	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301215	532	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	100	0.5	99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	490343	307	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	100	8.2	91.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1470352	5282	الأخصائيون	2
Science and Engineering Professionals	100	3.1	96.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	196073	1014	الأخصائيون فى العلوم والهندسة	21
Health Professionals	100	15.7	84.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	247673	473	الأخصائيون في الصحة	22
Teaching Professionals	100	6.9	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139931	1348	الأخصائيون في التعليم	23
Business and Administration Professionals	100	9.4	90.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	694226	2053	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	100	0.2	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20520	149	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	100	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171930	245	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	100	0.3	18.8	19.1	54.9	1.2	1.1	1.5	2.4	0.7	1025607	3803	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	100	0.3	8.0	16.7	69.3	1.1	0.5	1.4	2.0	0.7	615395	2353	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	100	0.2	9.9	34.5	53.9	0.1	0.6	0.0	0.2	0.6	115337	575	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	100	0.6	49.1	26.2	22.6	0.7	0.0	0.0	0.7	0.0	169797	503	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	100	0.1	36.8	7.3	29.1	3.7	6.8	5.2	9.3	1.7	120271	351	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	100	0.0	79.9	2.0	18.1	0.0	0.0	0.0	0.0	0.0	4808	21	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	100	0.4	57.0	10.9	25.8	1.5	0.2	0.0	4.2	0.0	1303801	2647	الكتبة	4
General and Keyboard Clerks	100	0.3	80.8	4.0	14.8	0.0	0.0	0.0	0.0	0.0	160555	420	الكتبة العامون والطابعون	41
Customer Services Clerks	100	0.6	76.5	6.0	16.5	0.2	0.2	0.0	0.0	0.0	393423	711	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	100	0.5	28.0	23.3	28.5	4.9	0.2	0.0	14.5	0.0	374787	656	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	100	0.1	55.5	6.5	37.5	0.2	0.3	0.0	0.0	0.0	375036	860	الكتبة الآخرون	44

(2-3) Distribution of current jobs by the educational level required in private sector establishments according to the sub-major occupational group (two digit)

Sub-major occupational group	Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	1.4	16.4	5.1	46.5	1.6	14.6	1.5	11.2	1.7	4442485	3730	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.3	9.7	4.8	29.4	2.3	29.8	4.8	17.5	1.4	971665	1787	العاملون في الخدمات الشخصي	51
Sales Workers	100	2.0	16.7	5.6	53.2	1.1	10.7	0.4	8.5	1.9	3082469	1087	العاملون في المبيعات	52
Personal Care Workers	100	0.0	77.4	0.7	11.8	0.3	3.5	4.2	2.1	0.0	78684	68	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	100	0.0	18.3	1.7	42.4	4.6	9.2	1.2	21.0	1.6	309667	788	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100	0.0	0.4	2.0	33.1	14.7	17.3	4.6	19.3	8.6	152340	146	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	100	0.0	0.4	2.0	33.1	14.7	17.3	4.6	19.3	8.6	152340	146	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	100	0.1	0.9	5.8	51.3	2.0	11.1	5.6	11.2	11.9	1268728	2381	العاملون في البناء ومن إليهم (عدا الكهرباء)	7
Building and Related Trades Workers (excluding Electricians)	100	0.9	0.2	0.9	69.3	1.5	14.7	9.3	2.3	0.8	87721	269	الحرفيون ومن إليهم	71
Metal, Machinery and Related Trades Workers	100	0.0	0.2	7.5	70.5	0.2	5.6	1.4	13.9	0.7	359610	470	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	100	0.0	0.4	0.5	35.5	1.2	17.8	0.7	6.0	38.0	141162	404	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	100	0.0	0.4	2.5	31.8	0.4	0.1	1.7	2.0	61.1	86417	126	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.1	1.7	7.3	43.7	3.6	14.0	9.3	13.3	7.0	593817	1112	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	100	0.3	1.1	4.1	55.5	2.0	11.0	3.6	14.6	7.8	817184	4070	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	100	0.5	0.7	4.6	55.2	1.4	7.9	3.5	15.8	10.6	594952	2746	مشغلو المعدات والآلات الثابتة	81
Assemblers	100	0.0	0.7	2.0	48.7	8.3	7.3	1.6	30.7	0.9	25940	224	اخصائيون مساعدو في الأعمال والإدارة	82
Drivers and Mobile Plant Operators	100	0.0	2.5	2.7	57.4	3.0	20.8	4.3	8.8	0.5	196292	1100	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	100	0.1	5.9	7.6	29.9	3.7	25.9	2.7	14.0	10.3	1225980	1993	العاملون في المهن الأولية	9
Cleaners and Helpers	100	0.0	0.0	5.0	28.0	1.2	36.6	3.7	12.2	13.2	455502	932	عاملو الزراعة والحراجة والصيد المائي	91
Agricultural, Forestry and Fishery Labourers	100	0.0	0.0	0.0	35.7	27.5	27.6	3.8	5.4	0.0	7773	21	عاملو النظافة والمساعدون	92
Labourers in Mining, Construction, Manufacturing and Transport	100	0.0	0.5	0.5	35.7	0.5	6.1	0.7	54.2	1.6	79808	144	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	100	0.0	0.9	10.5	38.3	2.2	29.3	3.9	9.2	5.6	78971	236	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	100	0.2	12.1	10.4	29.7	6.0	20.5	2.0	11.2	7.9	588041	653	عاملو النفايات وعاملو المهن الأولية الآخرون	96

Appendix (3)

(3-1) Skills required in private sector and public sector establishment according to educational level for current jobs

Percentage of jobs requiring intermediate level of skill or higher

Educational level	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	المهن الحالية
Total	52.4	78.3	60.4	67.3	70.1	26.1	30.8	68.2	75.2	62.7	13856190	33875	الاجمالى
No education needed	45.7	43.9	44.3	42.9	40.7	0.1	0.0	11.2	11.4	34.0	437966	693	لا حاجة الى التعليم
Read & write	58.4	61.3	35.9	40.5	45.4	0.3	0.0	26.5	23.5	39.6	1054281	1763	يقرأ ويكتب
Primary	65.3	65.9	66.0	58.8	61.8	0.2	0.0	32.1	25.6	52.3	233886	871	ابتدائية
Prep school	53.7	67.4	42.8	49.1	53.8	2.5	0.0	35.5	48.6	52.9	1268266	2261	اعدادية
General /Azhary secondary	69.8	86.0	78.1	74.1	75.5	15.6	14.7	45.1	47.4	65.6	217794	559	ثانوية عامة / ازهرية
Technical secondary	58.9	77.1	59.8	65.3	71.2	7.3	13.5	68.3	80.4	64.3	4710840	11214	ثانـــوى فنى
Above Intermediate	50.0	76.8	46.9	58.1	57.7	17.0	14.3	78.7	93.8	49.9	814307	1747	مؤهل فوق متوسط
University	45.4	89.4	74.1	82.9	84.3	60.1	67.8	90.7	93.6	74.2	4891563	14125	مؤهل جامعى
Higher than university	26.5	79.4	44.0	81.5	49.5	51.7	71.9	89.6	91.7	48.9	227287	642	اعلى من الجامعى

(3-2) Skills required in public sector establishments according to educational level for current jobs

Percentage of jobs requiring intermediate level of skill or higher

Educational level	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	المهن الحالية
Total	43.6	60.0	57.2	53.8	68.5	42.0	50.5	82.1	89.0	56.3	665083	7422	الاجمالى
No education needed	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.3	271	*	لا حاجة الى التعليم
Read & write	36.0	40.4	32.0	36.6	36.7	0.1	0.0	7.2	17.4	23.9	15884	254	يقرأ ويكتب
Primary	37.6	18.6	32.9	20.0	36.2	0.4	0.0	14.5	24.0	28.9	12700	126	ابتدائية
Prep school	51.4	41.1	36.4	35.7	39.3	1.2	0.0	47.5	55.9	44.2	28694	376	اعدادية
General /Azhary secondary	30.9	54.0	34.2	50.8	60.2	12.6	25.1	56.1	63.0	36.7	5334	66	ثانوية عامة / ازهرية
Technical secondary	56.4	54.8	55.3	48.2	66.5	24.7	28.1	75.7	87.9	56.5	224679	2486	ثانـــوى فنى
Above Intermediate	59.5	66.4	69.7	60.6	84.5	27.0	29.5	90.6	94.5	67.2	48031	567	مؤهل فوق متوسط
University	32.6	66.9	60.8	59.9	72.9	62.7	77.9	94.8	98.2	58.2	319904	3444	مؤهل جامعى
Higher than university	34.3	72.0	66.4	78.5	75.2	95.0	85.5	99.2	99.4	71.3	9586	101	اعلى من الجامعى

(3-3) Skills required in private sector establishments according to educational level for current jobs

Percentage of jobs requiring intermediate level of skill or higher

Educational level	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من العاملين Sample size of employees	المهن الحالية
Total	52.9	79.2	60.5	68.0	70.2	25.3	29.8	67.5	74.5	63.0	13191107	26453	الاجمالى
No education needed	45.7	44.0	44.4	42.9	40.7	0.1	0.0	11.2	11.5	34.0	437695	691	لا حاجة الى التعليم
Read & write	58.7	61.6	35.9	40.5	45.5	0.3	0.0	26.8	23.6	39.9	1038397	1509	يقرأ ويكتب
Primary	66.9	68.6	67.9	61.1	63.3	0.2	0.0	33.2	25.6	53.7	221187	745	ابتدائية
Prep school	53.8	68.0	42.9	49.4	54.1	2.5	0.0	35.2	48.4	53.1	1239572	1885	اعدادية
General /Azhary secondary	70.7	86.8	79.2	74.7	75.9	15.7	14.4	44.9	47.0	66.3	212461	493	ثانوية عامة / ازهرية
Technical secondary	59.0	78.2	60.0	66.2	71.5	6.5	12.7	68.0	80.0	64.7	4486161	8728	ثانـــوى فنى
Above Intermediate	49.4	77.5	45.5	58.0	56.0	16.4	13.4	77.9	93.8	48.9	766276	1180	مؤهل فوق متوسط
University	46.3	90.9	75.1	84.5	85.1	59.9	67.1	90.4	93.3	75.4	4571659	10681	مؤهل جامعى
Higher than university	26.2	79.8	43.0	81.6	48.3	49.8	71.3	89.2	91.3	47.9	217701	541	اعلى من الجامعى

Appendix (4)

(4-1) Number of workers required for vacancies in private sector and public sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Total	100	293708	10352	الإجمالى	
Managers	2.1	6070	127	المديرون	1
Chief Executives, Senior Officials and Legislators	0.6	1832	39	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	1.0	2924	76	المديرون الإداريون والتجاريون	12
Professionals	12.6	36895	2326	الأخصائيون	2
Science and Engineering Professionals	2.1	6237	1159	الأخصائيون فى العلوم والهندسة	21
Health Professionals	1.1	3120	252	الأخصائيون في الصحة	22
Teaching Professionals	0.6	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	4.5	13153	628	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	1.0	3017	109	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	3.2	9508	29	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	6.6	19456	2225	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	2.0	5836	1815	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	0.4	1049	210	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	1.0	2953	115	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	3.2	9526	72	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	0.0	92	13	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	2.9	8608	583	الكتبة	4
General and Keyboard Clerks	1.1	3084	156	الكتبة العامون والطابعون	41
Customer Services Clerks	1.0	3066	69	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	0.4	1125	259	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	0.5	1332	99	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	29.3	86051	1210	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	13.9	40703	714	العاملون في الخدمات الشخصي	51

(4-1) Number of workers required for vacancies in private sector and public sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Sales Workers	12.0	35220	258	العاملون في المبيعات	52
Protective Services Workers	2.5	7360	233	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	1.2	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	1.2	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	7.7	22659	896	العاملون في البناء ومن إليهم (عدا الكهرباء)	7
Building and Related Trades Workers (excluding Electricians)	0.4	1183	207	الحرفيون ومن إليهم	71
Metal, Machinery and Related Trades Workers	0.7	2023	293	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	3.1	9060	157	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	0.4	1178	19	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	3.1	9215	220	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	13.5	39561	2256	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	6.2	18140	1779	مشغلو المعدات والآلات الثابتة	81
Assemblers	6.1	17895	36	اخصائيون مساعدو في الأعمال والإدارة	82
Drivers and Mobile Plant Operators	1.2	3526	441	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	24.1	70865	719	العاملون في المهن الأولية	9
Cleaners and Helpers	9.1	26852	355	عاملو الزراعة والحراجة والصيد المائي	91
Labourers in Mining, Construction, Manufacturing and Transport	0.4	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	0.6	1777	34	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	14.0	41137	290	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(4-2) Number of workers required for vacancies in public sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Total	100	7334	4998	الإجمالى	
Managers	0.5	38	32	المديرون	1
Chief Executives, Senior Officials and Legislators	0.4	32	26	رجال التشريع وكبار المسئولين والرؤساء	11
Professionals	28.0	2055	1711	الأخصائيون	2
Science and Engineering Professionals	17.7	1299	1007	الأخصائيون فى العلوم والهندسة	21
Health Professionals	2.0	147	142	الأخصائيون في الصحة	22
Business and Administration Professionals	7.0	513	474	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	1.0	71	70	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	0.4	26	18	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	29.1	2135	1627	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	26.1	1912	1486	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	1.8	131	117	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	1.1	81	13	اخصائيون مساعدو في الأعمال والإدارة	33
Information and Communications Technicians	0.1	10	10	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	8.8	649	412	الكتبة	4
General and Keyboard Clerks	0.9	63	55	الكتبة العامون والطابعون	41
Customer Services Clerks	1.5	112	67	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	1.3	93	64	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	5.2	380	226	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	4.5	334	171	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	0.8	57	57	العاملون في الخدمات الشخصي	51
Protective Services Workers	3.8	277	114	العاملون في الحماية والخدمات الوقائية	54
CRAFT AND RELATED TRADES WORKERS	9.6	701	432	الحرفيون ومن اليهم	7
Building and Related Trades Workers (excluding Electricians)	5.6	409	154	العاملون في البناء ومن إليهم (عدا الكهرباء)	71

(4-2) Number of workers required for vacancies in public sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Metal, Machinery and Related Trades Workers	2.1	152	142	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	0.3	21	20	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	1.5	113	111	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	15.1	1107	382	مشغلو المعدات والآلات وعمال التجميع	8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	11.1	811	192	مشغلو المعدات والآلات الثابتة	81
Drivers and Mobile Plant Operators	4.0	297	190	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	4.3	314	231	العاملون في المهن الأولية	9
Cleaners and Helpers	2.3	169	168	عاملو الزراعة والحراجة والصيد المائي	91
Refuse Workers and Other Elementary Workers	2.0	145	63	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(4-3) Number of workers required for vacancies in private sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Total	100	286374	5354	الإجمالى	
Managers	2.1	6032	95	المديرون	1
Chief Executives, Senior Officials and Legislators	0.6	1800	13	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	1.0	2918	70	المديرون الإداريون والتجاريون	12
Professionals	12.2	34840	615	الأخصائيون	2
Science and Engineering Professionals	1.7	4938	152	الأخصائيون فى العلوم والهندسة	21
Health Professionals	1.0	2973	110	الأخصائيون في الصحة	22
Teaching Professionals	0.6	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	4.4	12640	154	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	1.0	2946	39	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	3.3	9482	11	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	6.0	17321	598	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	1.4	3924	329	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	0.3	918	93	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	1.0	2873	102	اخصائيون مساعدو في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	3.3	9525	71	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
CLERICAL SUPPORT WORKERS	2.8	7959	171	الكتبة	4
General and Keyboard Clerks	1.1	3021	14	الكتبة العامون والطابعون	41
Customer Services Clerks	1.0	2954	89	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	0.4	1032	35	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	0.3	951	33	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	29.9	85717	1039	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	14.2	40646	657	العاملون في الخدمات الشخصي	51

(4-3) Number of workers required for vacancies in private sector establishments (two-digits)

Sub-major occupational group	"النسبة المئوية من إجمالي المهن الشاغرة "Percentage of total vacancies	"حجم العمالة المطلوبة "Required Labor size	"عدد الوظائف الحالية Number of Current "jobs	القسم الفرعي للمهنة	رمز المهنة
Sales Workers	12.3	35220	258	العاملون في المبيعات	52
Protective Services Workers	2.5	7083	119	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	1.2	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	1.2	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	7.7	21958	464	العاملون في البناء ومن إليهم (عدا الكهرباء)	7
Building and Related Trades Workers (excluding Electricians)	0.3	774	53	الحرفيون ومن إليهم	71
Metal, Machinery and Related Trades Workers	0.7	1872	151	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	3.2	9038	137	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	0.4	1172	14	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	3.2	9103	109	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	13.4	38454	1874	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	6.1	17330	1587	مشغلو المعدات والآلات الثابتة	81
Assemblers	6.2	17895	36	اخصائيون مساعدو في الأعمال والإدارة	82
Drivers and Mobile Plant Operators	1.1	3229	251	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	24.6	70551	488	العاملون في المهن الأولية	9
Cleaners and Helpers	9.3	26683	187	عاملو الزراعة والحراجة والصيد المائي	91
Labourers in Mining, Construction, Manufacturing and Transport	0.4	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	0.6	1777	34	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	14.3	40992	227	عاملو النفايات وعاملو المهن الأولية الآخرون	96

Appendix (5)

(5-1) Vacancies according to the required skills in private sector and public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	56.9	66.8	70.4	67.4	67.7	15.4	24.2	43.3	59.0	51.6	293708	10352	الإجمالى	
Managers	85.9	98.8	99.6	99.7	95.8	28.4	91.7	91.8	100.0	95.2	6070	127	المديرون	1
Chief Executives, Senior Officials and Legislators	93.7	99.9	99.6	100.0	99.9	2.1	99.9	100.0	100.0	98.9	1832	39	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	75.2	98.2	100.0	100.0	91.4	13.3	82.9	83.0	100.0	91.3	2924	76	المديرون الإداريون والتجاريون	12
Professionals	45.0	97.9	87.7	80.4	81.5	51.3	97.5	81.5	100.0	90.2	36895	2326	الاخصائيون	2
Science and Engineering Professionals	60.0	92.4	90.0	97.4	99.2	89.9	95.4	96.7	100.0	80.8	6237	1159	الأخصائيون فى العلوم والهندسة	21
Health Professionals	95.8	99.8	95.5	98.9	98.8	98.4	97.6	98.1	100.0	97.4	3120	252	الأخصائيون في الصحة	22
Teaching Professionals	74.6	97.9	90.5	98.3	98.3	86.8	75.7	94.2	100.0	32.6	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	26.7	98.7	97.7	48.1	49.3	20.3	99.9	99.8	100.0	92.1	13153	628	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	63.4	98.4	89.2	97.6	98.4	98.4	100.0	99.3	100.0	98.4	3017	109	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	32.1	99.5	69.0	98.9	100.0	31.7	98.8	32.7	100.0	99.9	9508	29	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
Technicians and associate professionals	76.0	84.8	81.8	90.7	89.3	12.5	19.5	48.8	93.5	80.4	19456	2225	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	61.6	61.1	69.5	84.3	80.6	8.3	16.0	60.4	94.1	70.3	5836	1815	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	32.2	97.4	31.7	77.4	88.6	7.4	12.7	85.9	99.9	43.8	1049	210	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	77.1	100.0	86.7	95.4	89.2	62.9	88.9	100.0	100.0	88.4	2953	115	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	89.2	93.2	93.3	94.7	94.7	0.0	0.0	21.2	90.3	88.0	9526	72	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	79.5	89.1	90.4	89.1	100.0	9.6	100.0	100.0	100.0	89.1	92	13	فنيو تكنولوجيا المعلومات والاتصالات	35
Clerical support workers	38.3	95.4	49.2	65.9	64.1	36.2	45.5	64.2	67.4	50.3	8608	583	الكتبة	4
General and Keyboard Clerks	3.5	97.9	7.3	8.8	9.4	5.4	9.0	9.6	9.6	6.3	3084	69	الكتبة العامون والطابعون	41
Customer Services Clerks	40.0	99.7	97.3	99.9	94.2	85.8	94.3	93.4	99.8	67.3	3066	156	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	89.6	85.5	15.5	89.7	89.5	4.6	7.5	91.8	99.3	90.3	1125	99	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	71.8	87.9	63.8	99.8	99.7	20.0	50.0	100.0	100.0	79.3	1332	259	الكتبة الآخرون	44

(5-1) Vacancies according to the required skills in private sector and public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	53.3	93.7	90.6	93.4	92.3	15.8	22.0	59.1	82.5	34.3	86051	1210	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	62.4	91.4	83.8	92.1	90.1	3.4	3.1	17.2	65.3	31.6	40703	714	العاملون في الخدمات الشخصية	51
Sales Workers	31.8	97.4	96.7	93.7	93.2	26.1	27.9	99.3	97.9	34.1	35220	258	العاملون في المبيعات	52
Personal Care Workers	87.6	87.1	95.4	98.7	97.6	6.5	69.4	83.0	97.1	25.4	7360	233	العاملون في الحماية والخدمات الوقائية	54
Protective Services Workers	100.0	4.1	100.0	100.0	100.0	0.0	0.0	95.9	100.0	4.1	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100.0	4.1	100.0	100.0	100.0	0.0	0.0	95.9	100.0	4.1	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
Market-oriented Skilled Agricultural Workers	35.6	37.9	41.5	66.1	75.4	2.1	0.9	23.2	25.1	33.2	22659	896	الحرفيون ومن إليهم	7
CRAFT AND RELATED TRADES WORKERS	63.3	41.1	79.6	79.1	98.1	0.0	2.6	69.5	58.0	63.8	1183	207	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Building and Related Trades Workers (excluding Electricians)	38.0	69.6	75.3	64.9	41.2	13.2	5.5	13.4	36.6	98.9	2023	293	عمال الصناعات المعدنية والآلات ومن إليهم	72
Metal, Machinery and Related Trades Workers	14.6	3.4	11.0	89.3	88.2	0.7	0.0	4.8	5.2	6.2	9060	157	عمال الصناعة التقليدية والطباعة	73
Handicraft and Printing Workers	97.0	2.9	99.8	3.1	3.4	2.8	2.8	2.8	3.4	3.3	1178	19	العاملون في المهن الكهربائية والالكترونية	74
Electrical and Electronic Trades Workers	44.3	69.0	51.7	49.9	76.6	1.3	0.3	40.0	40.6	45.1	9215	220	العاملون في تجهيز الاغذية والاخشاب والملابس وغيرها	75
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	81.5	55.1	42.1	48.6	50.0	12.0	3.8	24.7	46.6	81.3	39561	2256	مشغلو المعدات والآلات وعمال التجميع	8
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	68.2	28.0	63.1	79.9	81.8	22.2	4.4	28.7	71.2	62.8	18140	1779	مشغلو المعدات والآلات الثابتة	81
Stationary Plant and Machine Operators	99.9	83.7	20.0	20.0	20.0	3.8	3.8	20.0	20.0	100.0	17895	36	عاملو التجميع	82
Assemblers	56.5	49.8	46.8	33.2	38.4	0.7	0.1	27.6	55.0	81.1	3526	441	السائقون ومشغلو المعدات المتنقلة	83
Drivers and Mobile Plant Operators	52.8	25.5	57.4	29.3	28.6	0.4	1.8	10.4	10.9	32.8	70865	719	العاملون في المهن الأولية	9
ELEMENTARY OCCUPATIONS	23.9	7.4	91.9	16.1	15.4	0.0	0.0	14.6	16.0	77.0	26852	355	عاملو النظافة والمساعدون	91
Cleaners and Helpers	100.0	0.2	6.8	96.9	6.6	0.0	0.0	0.2	90.5	9.9	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Labourers in Mining, Construction, Manufacturing and Transport	99.9	99.5	94.1	65.0	93.9	0.0	29.2	93.8	29.3	29.5	1777	34	المساعدون في إعداد الطعام	94
Food Preparation Assistants	68.4	34.8	34.6	34.6	35.0	0.6	1.9	4.4	4.6	4.8	41137	290	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(5-2) Vacancies according to the required skills in public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	49.8	67.8	71.8	80.9	83.8	32.8	54.8	72.3	82.9	61.7	7334	4998	الإجمالى	
Managers	44.7	97.3	86.7	100.0	97.3	100.0	100.0	100.0	100.0	55.3	38	32	المديرون	1
Chief Executives, Senior Officials and Legislators	53.0	96.8	84.2	100.0	96.8	100.0	100.0	100.0	100.0	47.0	32	26	رجال التشريع وكبار المسئولين والرؤساء	11
Professionals	43.6	87.2	80.7	85.4	94.7	66.6	93.8	89.9	100.0	70.2	2055	1711	الاخصائيون	2
Science and Engineering Professionals	38.0	85.5	76.4	89.8	99.8	69.1	94.1	89.5	100.0	72.5	1299	1007	الأخصائيون فى العلوم والهندسة	21
Health Professionals	84.6	95.7	96.0	76.5	75.2	74.5	75.2	75.9	100.0	100.0	147	142	الأخصائيون في الصحة	22
Business and Administration Professionals	43.0	96.2	93.2	89.3	96.1	63.4	99.0	99.0	100.0	56.9	513	474	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	67.3	32.6	32.6	5.8	32.6	32.6	100.0	71.6	100.0	71.6	71	70	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	41.8	92.4	96.2	53.1	96.2	58.3	58.3	58.3	100.0	49.4	26	18	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
Technicians and associate professionals	58.0	58.9	69.5	72.6	70.7	12.0	26.9	65.8	85.0	63.2	2135	1627	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	58.1	54.7	71.7	75.3	73.0	12.1	24.1	67.5	83.3	59.7	1912	1486	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	97.0	97.8	14.5	22.9	16.6	16.6	16.6	17.5	100.0	99.2	131	117	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	0.0	100.0	100.0	98.4	100.0	1.6	100.0	100.0	100.0	95.3	81	13	اخصائيون مساعدون في الأعمال والإدارة	33
Information and Communications Technicians	0.0	0.0	100.0	0.0	100.0	0.0	100.0	100.0	100.0	0.0	10	10	فنيو تكنولوجيا المعلومات والاتصالات	35
Clerical support workers	39.9	74.4	75.5	91.1	94.2	48.3	92.9	94.9	99.5	67.6	649	412	الكتبة	4
General and Keyboard Clerks	0.0	88.4	70.7	60.0	91.6	56.9	81.7	100.0	100.0	56.9	63	55	الكتبة العامون والطابعون	41
Customer Services Clerks	10.9	93.2	30.2	99.1	97.2	97.2	97.2	72.3	99.1	72.3	112	67	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	79.7	62.4	50.3	68.5	72.8	36.8	68.3	97.8	97.8	95.7	93	64	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	45.4	69.5	95.8	99.5	98.9	35.3	99.5	100.0	100.0	61.2	380	226	الكتبة الآخرون	44

(5-2) Vacancies according to the required skills in public sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees المهنة	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	6.4	12.6	51.2	81.6	84.1	48.5	3.0	36.8	37.1	12.0	334	171	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	1.8	10.5	1.8	8.8	8.8	0.0	0.0	8.8	8.8	1.8	57	57	العاملون في الخدمات الشخصية	51
Protective Services Workers	7.3	13.0	61.4	96.6	99.6	58.4	3.7	42.6	42.9	14.1	277	114	العاملون في الحماية والخدمات الوقائية	54
CRAFT AND RELATED TRADES WORKERS	12.9	34.5	66.0	91.6	97.3	24.2	17.3	57.0	41.7	24.4	701	432	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	1.7	1.5	98.3	99.3	99.3	0.0	0.0	54.3	1.7	0.0	409	154	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	31.0	74.8	22.7	74.8	97.8	96.4	73.1	96.4	97.8	95.1	152	142	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	21	20	عمال الصناعة التقليدية والطباعة	73
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	9.9	90.1	0.9	90.1	91.0	0.0	9.0	9.0	99.1	0.9	113	111	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	84.7	84.1	85.5	85.8	86.0	9.0	67.1	78.7	90.9	82.2	1107	382	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	94.1	98.1	93.6	98.1	95.6	10.1	91.2	100.0	100.0	93.7	811	192	مشغلو المعدات والآلات الثابتة	81
Drivers and Mobile Plant Operators	59.1	45.6	63.6	52.0	59.6	6.1	1.0	20.5	65.9	50.7	297	190	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	59.6	59.8	6.8	43.6	40.4	0.0	0.0	0.0	31.8	48.5	314	231	العاملون في المهن الأولية	9
Cleaners and Helpers	100.0	36.0	10.8	6.0	0.0	0.0	0.0	0.0	59.2	6.0	169	168	عاملو النظافة والمساعدون	91
Refuse Workers and Other Elementary Workers	12.5	87.5	2.1	87.5	87.5	0.0	0.0	0.0	0.0	97.9	145	63	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(5-3) Vacancies according to the required skills in private sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	57.0	66.7	70.4	67.0	67.3	15.0	23.4	42.6	58.4	51.4	286374	5354	الإجمالى	
Managers	86.1	98.8	99.7	99.7	95.8	27.9	91.6	91.7	100.0	95.4	6032	95	المديرون	1
Chief Executives, Senior Officials and Legislators	94.5	99.9	99.9	100.0	100.0	0.3	99.9	100.0	100.0	99.8	1800	13	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	75.4	98.2	100.0	100.0	91.4	13.1	82.8	83.0	100.0	91.3	2918	70	المديرون الإداريون والتجاريون	12
Professionals	45.1	98.5	88.2	80.1	80.7	50.4	97.7	81.0	100.0	91.3	34840	615	الاخصائيون	2
Science and Engineering Professionals	65.8	94.2	93.5	99.4	99.1	95.4	95.7	98.5	100.0	83.1	4938	152	الأخصائيون فى العلوم والهندسة	21
Health Professionals	96.4	100.0	95.5	100.0	100.0	99.5	98.7	99.2	100.0	97.2	2973	110	الأخصائيون في الصحة	22
Teaching Professionals	74.6	97.9	90.5	98.3	98.3	86.8	75.7	94.2	100.0	32.6	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	26.1	98.8	97.8	46.4	47.4	18.6	99.9	99.8	100.0	93.5	12640	154	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	63.3	100.0	90.5	99.7	100.0	100.0	100.0	100.0	100.0	99.1	2946	39	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	32.1	99.5	69.0	99.0	100.0	31.6	99.0	32.6	100.0	100.0	9482	11	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
Technicians and associate professionals	78.2	88.0	83.3	92.9	91.6	12.6	18.5	46.7	94.5	82.5	17321	598	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	63.4	64.3	68.5	88.6	84.3	6.5	12.1	57.0	99.4	75.4	3924	329	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	22.9	97.3	34.2	85.2	98.9	6.1	12.1	95.6	99.9	35.9	918	93	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	79.3	100.0	86.4	95.4	88.9	64.6	88.6	100.0	100.0	88.2	2873	102	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	89.2	93.2	93.3	94.7	94.7	0.0	0.0	21.2	90.3	88.0	9525	71	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Clerical support workers	38.2	97.1	47.0	63.8	61.6	35.2	41.7	61.7	64.8	48.9	7959	171	الكتبة	4
General and Keyboard Clerks	3.5	98.1	5.9	7.7	7.7	4.3	7.5	7.7	7.7	5.3	3021	14	الكتبة العامون والطابعون	41
Customer Services Clerks	41.1	100.0	99.8	99.9	94.1	85.4	94.2	94.2	99.9	67.1	2954	89	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	90.5	87.6	12.3	91.7	91.0	1.7	2.0	91.3	99.4	89.8	1032	35	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	82.4	95.3	51.0	100.0	100.0	13.9	30.2	100.0	100.0	86.5	951	33	الكتبة الآخرون	44

(5-3) Vacancies according to the required skills in private sector establishments according to sub-major occupational group (two-digits)

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	53.4	94.0	90.8	93.4	92.3	15.7	22.1	59.2	82.7	34.4	85717	1039	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	62.5	91.5	83.9	92.3	90.2	3.4	3.1	17.2	65.4	31.6	40646	657	العاملون في الخدمات الشخصية	51
Sales Workers	31.8	97.4	96.7	93.7	93.2	26.1	27.9	99.3	97.9	34.1	35220	258	العاملون في المبيعات	52
Protective Services Workers	90.8	90.0	96.8	98.8	97.5	4.4	71.9	84.5	99.2	25.9	7083	119	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100.0	4.1	100.0	100.0	100.0	0.0	0.0	95.9	100.0	4.1	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	100.0	4.1	100.0	100.0	100.0	0.0	0.0	95.9	100.0	4.1	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	36.3	38.0	40.7	65.3	74.7	1.4	0.4	22.1	24.5	33.4	21958	464	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	95.9	62.0	69.7	68.5	97.5	0.0	4.1	77.5	87.7	97.5	774	53	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	38.6	69.2	79.5	64.0	36.6	6.5	0.0	6.7	31.6	99.2	1872	151	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	14.4	3.2	10.8	89.3	88.2	0.5	0.0	4.6	5.0	6.0	9038	137	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	97.2	3.0	100.0	3.1	3.1	2.7	2.8	2.8	3.1	3.0	1172	14	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	44.7	68.7	52.4	49.4	76.5	1.3	0.2	40.4	39.9	45.7	9103	109	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	81.4	54.3	40.9	47.6	49.0	12.1	1.9	23.1	45.3	81.2	38454	1874	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	67.0	24.7	61.6	79.0	81.2	22.8	0.3	25.4	69.9	61.4	17330	1587	مشغلو المعدات والآلات الثابتة	81
Assemblers	99.9	83.7	20.0	20.0	20.0	3.8	3.8	20.0	20.0	100.0	17895	36	عاملو التجميع	82
Drivers and Mobile Plant Operators	56.3	50.2	45.3	31.5	36.5	0.2	0.0	28.2	54.0	83.9	3229	251	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	52.8	25.4	57.6	29.2	28.6	0.4	1.8	10.5	10.8	32.8	70551	488	العاملون في المهن الأولية	9
Cleaners and Helpers	23.4	7.2	92.4	16.2	15.5	0.0	0.0	14.7	15.7	77.5	26683	187	عاملو النظافة والمساعدون	91
Labourers in Mining, Construction, Manufacturing and Transport	100.0	0.2	6.8	96.9	6.6	0.0	0.0	0.2	90.5	9.9	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	99.9	99.5	94.1	65.0	93.9	0.0	29.2	93.8	29.3	29.5	1777	34	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	68.6	34.7	34.7	34.4	34.8	0.6	1.9	4.4	4.6	4.4	40992	227	عاملو النفايات وعاملو المهن الأولية الآخرون	96

The data indicate a low percentage of required skills for the profession of clerks and typists in the private sector, which is attributed to the fragility of the number of observations for this profession, totaling 14 observations collected from 6 small establishments that do not require advanced skills.

Appendix (6)

(6-1) Distribution of Vacancies by the educational level required in private sector and public sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	100	0.3	26.6	2.1	33.5	0.3	7.4	1.1	27.2	1.5	293708	10352	**الإجمالى**	
Managers	100	0.9	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6070	127	المديرون	1
Chief Executives, Senior Officials and Legislators	100	0.2	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1832	39	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	100	1.7	98.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2924	76	المديرون الإداريون والتجاريون	12
Professionals	100	1.6	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36895	2326	الاخصائيون	2
Science and Engineering Professionals	100	1.2	98.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6237	1159	الأخصائيون فى العلوم والهندسة	21
Health Professionals	100	6.9	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3120	252	الأخصائيون في الصحة	22
Teaching Professionals	100	4.1	95.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	100	1.8	98.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13153	628	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3017	109	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9508	29	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	100	0.0	54.2	5.0	34.5	0.0	0.3	0.7	4.9	0.3	19456	2225	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	100	0.1	6.8	11.9	77.8	0.0	0.9	2.3	0.3	0.0	5836	1815	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	100	0.0	5.0	2.9	92.1	0.0	0.0	0.0	0.0	0.0	1049	210	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	100	0.0	91.8	4.5	3.7	0.0	0.0	0.0	0.0	0.0	2953	115	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	100	0.0	76.5	1.2	11.6	0.0	0.2	0.0	9.9	0.6	9526	72	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92	13	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	100	0.1	36.0	2.3	61.1	0.3	0.1	0.0	0.0	0.0	8608	583	**الكتبة**	4
General and Keyboard Clerks	100	0.0	5.5	0.1	94.4	0.0	0.0	0.0	0.0	0.0	3084	69	الكتبة العامون والطابعون	41
Customer Services Clerks	100	0.2	73.0	2.3	24.4	0.0	0.0	0.0	0.0	0.0	3066	156	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	100	0.1	8.8	11.1	76.8	2.0	1.0	0.0	0.2	0.0	1125	99	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	100	0.2	44.1	0.2	55.5	0.0	0.0	0.0	0.0	0.0	1332	259	الكتبة الآخرون	44

(6-1) Distribution of Vacancies by the educational level required in private sector and public sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	0.0	22.6	1.8	57.6	0.7	2.1	2.3	11.8	1.1	86051	1210	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.0	4.9	3.8	56.8	0.0	4.4	3.1	24.7	2.4	40703	714	العاملون في الخدمات الشخصية	51
Sales Workers	100	0.0	27.8	0.0	69.9	0.0	0.0	2.0	0.3	0.0	35220	258	العاملون في المبيعات	52
Protective Services Workers	100	0.0	69.7	0.3	21.8	7.9	0.1	0.0	0.2	0.0	7360	233	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	100	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	100	0.0	0.8	0.7	50.3	0.0	18.7	0.2	28.9	0.5	22659	896	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	100	0.0	2.6	0.6	37.4	0.0	50.8	0.0	2.2	6.4	1183	207	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	100	0.0	0.1	4.6	76.3	0.0	0.0	1.8	15.9	1.3	2023	293	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	100	0.0	0.0	0.0	90.9	0.0	3.6	0.1	5.4	0.0	9060	157	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	100	0.0	2.7	0.0	1.0	0.0	0.0	0.0	96.4	0.0	1178	19	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.0	1.2	0.6	12.7	0.0	36.0	0.0	49.6	0.0	9215	220	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	100	0.0	2.1	8.1	40.7	0.5	4.1	2.2	40.6	1.7	39561	2256	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	100	0.0	4.2	2.3	76.6	0.0	2.2	1.3	9.6	3.7	18140	1779	مشغلو المعدات والآلات الثابتة	81
Assemblers	100	0.0	0.0	15.4	4.6	0.0	0.0	0.1	79.9	0.0	17895	36	عاملو التجميع	82
Drivers and Mobile Plant Operators	100	0.0	1.5	0.9	38.6	5.6	34.3	17.8	1.3	0.0	3526	441	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	100	0.2	2.5	0.2	8.0	0.2	19.7	0.1	65.2	3.8	70865	719	العاملون في المهن الأولية	9
Cleaners and Helpers	100	0.0	0.0	0.6	15.2	0.5	4.7	0.1	72.9	5.9	26852	355	عاملو النظافة والمساعدون	91
Labourers in Mining, Construction, Manufacturing and Transport	100	0.0	0.0	0.2	96.7	0.0	3.1	0.0	0.0	0.0	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	100	0.0	64.6	0.0	29.3	0.1	5.8	0.3	0.0	0.0	1777	34	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	100	0.4	1.5	0.0	0.1	0.0	30.5	0.2	64.7	2.6	41137	290	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(6-2) Distribution of Vacancies by the educational level required in public sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	4998	0.5	46.6	2.9	30.8	3.4	11.7	2.9	1.0	0.2	7334	4998	الإجمالى	
Managers	32	5.3	94.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38	32	المديرون	1
Chief Executives, Senior Officials and Legislators	26	6.3	93.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32	26	رجال التشريع وكبار المسئولين والرؤساء	11
Professionals	1711	1.7	98.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2055	1711	الاخصائيون	2
Science and Engineering Professionals	1007	2.6	97.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1299	1007	الأخصائيون فى العلوم والهندسة	21
Health Professionals	142	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147	142	الأخصائيون في الصحة	22
Business and Administration Professionals	474	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	513	474	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	70	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71	70	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	18	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	18	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	1627	0.0	10.4	3.4	77.5	0.0	2.3	6.3	0.0	0.0	2135	1627	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	1486	0.0	5.7	3.7	80.9	0.0	2.6	7.1	0.0	0.0	1912	1486	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	117	0.0	15.1	1.6	83.4	0.0	0.0	0.0	0.0	0.0	131	117	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	13	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81	13	اخصائيون مساعدون في الأعمال والإدارة	33
Information and Communications Technicians	10	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	10	فنيو تكنولوجيا المعلومات والاتصالات	35
CLERICAL SUPPORT WORKERS	412	0.0	59.0	18.8	21.8	0.0	0.0	0.2	0.3	0.0	649	412	الكتبة	4
General and Keyboard Clerks	55	0.0	63.9	4.4	31.6	0.0	0.0	0.0	0.0	0.0	63	55	الكتبة العامون والطابعون	41
Customer Services Clerks	67	0.0	35.8	63.3	0.0	0.0	0.0	0.9	0.0	0.0	112	67	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	64	0.0	2.3	49.8	45.8	0.0	0.0	0.0	2.2	0.0	93	64	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	226	0.0	78.8	0.5	20.7	0.0	0.0	0.0	0.0	0.0	380	226	الكتبة الآخرون	44

(6-2) Distribution of Vacancies by the educational level required in public sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	0.0	0.0	3.0	2.1	75.3	4.3	11.7	0.0	3.6	334	171	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.0	0.0	0.0	1.8	0.0	8.8	68.4	0.0	21.0	57	57	العاملون في الخدمات الشخصية	51
Sales Workers	100	0.0	0.0	3.7	2.2	90.8	3.4	0.0	0.0	0.0	277	114	العاملون في الحماية والخدمات الوقائية	54
Protective Services Workers	100	0.0	1.6	1.0	22.6	0.0	71.5	0.1	3.2	0.0	701	432	الحرفيون ومن إليهم	7
CRAFT AND RELATED TRADES WORKERS	100	0.0	0.0	1.7	0.5	0.0	97.8	0.0	0.0	0.0	409	154	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Building and Related Trades Workers (excluding Electricians)	100	0.0	0.7	0.0	98.7	0.0	0.0	0.0	0.7	0.0	152	142	عمال الصناعات المعدنية والآلات ومن إليهم	72
Metal, Machinery and Related Trades Workers	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	21	20	عمال الصناعة التقليدية والطباعة	73
Handicraft and Printing Workers	100	0.0	9.0	0.0	0.0	0.0	90.1	0.9	0.0	0.0	113	111	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.0	67.1	0.0	22.2	0.1	4.4	2.5	3.7	0.0	1107	382	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	100	0.0	91.7	0.0	6.4	0.0	1.9	0.0	0.0	0.0	811	192	مشغلو المعدات والآلات الثابتة	81
Drivers and Mobile Plant Operators	100	0.0	0.0	0.0	65.2	0.4	11.2	9.4	13.8	0.0	297	190	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	100	0.0	1.0	0.0	16.1	0.0	77.1	3.2	2.6	0.0	314	231	العاملون في المهن الأولية	9
Cleaners and Helpers	100	0.0	0.0	0.0	30.0	0.0	59.2	6.0	4.8	0.0	169	168	عاملو النظافة والمساعدون	91
Refuse Workers and Other Elementary Workers	100	0.0	2.1	0.0	0.0	0.0	97.9	0.0	0.0	0.0	145	63	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(6-3) Distribution of vacancies by the educational level required in private sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
Total	100	0.3	26.1	2.1	33.5	0.2	7.3	1.0	27.9	1.6	286374	5354	الإجمالى	
Managers	100	0.9	99.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6032	95	المديرون	1
Chief Executives, Senior Officials and Legislators	100	0.1	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1800	13	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	100	1.7	98.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2918	70	المديرون الإداريون والتجاريون	12
Professionals	100	1.6	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34840	615	الاخصائيون	2
Science and Engineering Professionals	100	0.8	99.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4938	152	الأخصائيون فى العلوم والهندسة	21
Health Professionals	100	7.2	92.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2973	110	الأخصائيون في الصحة	22
Teaching Professionals	100	4.1	95.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1860	149	الأخصائيون في التعليم	23
Business and Administration Professionals	100	1.8	98.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12640	154	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2946	39	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	100	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9482	11	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	100	0.0	59.6	5.2	29.2	0.0	0.1	0.0	5.5	0.3	17321	598	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	100	0.1	7.4	15.8	76.3	0.0	0.0	0.0	0.4	0.0	3924	329	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	100	0.0	3.5	3.1	93.3	0.0	0.0	0.0	0.0	0.0	918	93	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	100	0.0	91.6	4.6	3.8	0.0	0.0	0.0	0.0	0.0	2873	102	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	100	0.0	76.5	1.2	11.6	0.0	0.2	0.0	9.9	0.6	9525	71	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
CLERICAL SUPPORT WORKERS	100	0.2	34.1	1.0	64.3	0.3	0.1	0.0	0.0	0.0	7959	171	الكتبة	4
General and Keyboard Clerks	100	0.0	4.3	0.0	95.7	0.0	0.0	0.0	0.0	0.0	3021	14	الكتبة العامون والطابعون	41
Customer Services Clerks	100	0.3	74.4	0.0	25.3	0.0	0.0	0.0	0.0	0.0	2954	89	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	100	0.2	9.4	7.6	79.6	2.2	1.1	0.0	0.0	0.0	1032	35	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	100	0.3	30.2	0.0	69.5	0.0	0.0	0.0	0.0	0.0	951	33	الكتبة الآخرون	44

(6-3) Distribution of vacancies by the educational level required in private sector establishments according to the sub-major occupational group (two digits)

Sub-major occupational group	الاجمالي Total	اعلى من الجامعى Higher than university	مؤهل جامعى University	مؤهل فوق متوسط Above Intermediate	ثانوى فنى Technical secondary	ثانوية عامة / ازهرية General /Azhary secondary	اعدادية Prep school	ابتدائية Primary	يقرأ ويكتب Read & write	لا حاجة الى التعليم No education needed	عدد العاملين بعد التكبير The number of employees after expansion	حجم العينة من الوظائف الشاغرة Sample size of vacancies	القسم الفرعي للمهنة	رمز المهنة
SERVICES AND SALES WORKERS	100	0.0	22.7	1.8	57.8	0.4	2.1	2.3	11.8	1.1	85717	1039	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	100	0.0	4.9	3.8	56.9	0.0	4.3	3.0	24.7	2.4	40646	657	العاملون في الخدمات الشخصية	51
Sales Workers	100	0.0	27.8	0.0	69.9	0.0	0.0	2.0	0.3	0.0	35220	258	العاملون في المبيعات	52
Protective Services Workers	100	0.0	72.5	0.1	22.6	4.7	0.0	0.0	0.2	0.0	7083	119	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	100	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	3544	10	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	100	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	3544	10	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	100	0.0	0.7	0.7	51.2	0.0	17.0	0.2	29.7	0.5	21958	464	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	100	0.0	4.1	0.0	56.9	0.0	25.9	0.0	3.4	9.8	774	53	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	100	0.0	0.0	5.0	74.5	0.0	0.0	2.0	17.1	1.4	1872	151	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	100	0.0	0.0	0.0	91.1	0.0	3.6	0.1	5.2	0.0	9038	137	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	100	0.0	2.7	0.0	0.4	0.0	0.0	0.0	96.9	0.0	1172	14	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	100	0.0	1.1	0.6	12.9	0.0	35.3	0.0	50.2	0.0	9103	109	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	100	0.0	0.2	8.4	41.2	0.5	4.1	2.2	41.7	1.8	38454	1874	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	100	0.0	0.1	2.5	79.9	0.0	2.2	1.3	10.0	3.9	17330	1587	مشغلو المعدات والآلات الثابتة	81
Assemblers	100	0.0	0.0	15.4	4.6	0.0	0.0	0.1	79.9	0.0	17895	36	عاملو التجميع	82
Drivers and Mobile Plant Operators	100	0.0	1.6	1.0	36.2	6.1	36.4	18.5	0.1	0.0	3229	251	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	100	0.2	2.5	0.2	8.0	0.2	19.4	0.1	65.5	3.8	70551	488	العاملون في المهن الأولية	9
Cleaners and Helpers	100	0.0	0.0	0.6	15.1	0.5	4.4	0.1	73.4	6.0	26683	187	عاملو النظافة والمساعدون	91
Labourers in Mining, Construction, Manufacturing and Transport	100	0.0	0.0	0.2	96.7	0.0	3.1	0.0	0.0	0.0	1098	40	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	100	0.0	64.6	0.0	29.3	0.1	5.8	0.3	0.0	0.0	1777	34	المساعدون في إعداد الطعام	94
Refuse Workers and Other Elementary Workers	100	0.4	1.5	0.0	0.1	0.0	30.3	0.2	65.0	2.6	40992	227	عاملو النفايات وعاملو المهن الأولية الآخرون	96

Appendix (7)

(7-1) Skills required in private sector and public sector establishments according to educational level

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	المستوى التعليمي المطلوب للوظائف الشاغرة
Total	**56.9**	**66.8**	**70.4**	**67.4**	**67.7**	**15.4**	**24.2**	**43.3**	**59.0**	**51.6**	**293708**	**10352**	**الاجمالى**
No education needed	65.9	63.7	81.1	75.1	62.4	0.0	0.0	43.1	44.5	66.3	4483	255	لا حاجة الى التعليم
Read & write	59.4	36.6	42.5	16.7	20.2	0.2	0.0	3.3	3.8	59.1	79935	415	يقرأ ويكتب
Primary	47.7	21.7	43.4	27.3	32.6	0.2	0.0	26.4	6.0	29.0	3134	371	ابتدائية
Prep school	22.6	81.5	76.5	78.4	78.3	0.0	0.0	13.8	15.2	17.4	21684	978	اعدادية
General /Azhary secondary	57.4	37.6	74.4	64.8	64.8	47.3	0.0	14.0	80.1	59.5	961	196	ثانوية عامة / ازهرية
Technical secondary	61.9	68.0	73.8	87.5	86.3	6.1	3.5	49.8	81.9	27.2	98251	4097	ثانـــوى فنى
Above Intermediate	77.4	32.1	85.4	90.9	83.4	6.9	5.6	76.4	92.8	69.1	6243	408	مؤهل فوق متوسط
University	55.6	96.9	92.1	89.9	90.1	48.1	85.2	82.2	98.5	82.3	78198	3491	مؤهل جامعى
Higher than university	61.5	84.6	81.2	100.0	100.0	75.5	98.2	99.2	100.0	95.9	821	141	اعلى من الجامعى

(7-2) Skills required in private sector and public sector establishments according to educational level

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	المستوى التعليمي المطلوب للوظائف الشاغرة
Total	**49.8**	**67.8**	**71.8**	**80.9**	**83.8**	**32.8**	**54.8**	**72.3**	**82.9**	**61.7**	**7334**	**4998**	**الاجمالى**
No education needed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	12	لا حاجة الى التعليم
Read & write	45.7	30.5	44.3	29.1	36.2	29.1	0.0	29.1	30.5	34.7	73	70	يقرأ ويكتب
Primary	6.6	5.7	7.1	67.9	64.6	0.0	0.0	7.9	7.9	15.0	214	122	ابتدائية
Prep school	20.0	28.1	47.1	78.1	79.0	0.0	0.0	28.9	28.0	17.4	857	499	اعدادية
General /Azhary secondary	0.0	8.3	59.3	99.6	100.0	59.3	0.0	40.7	40.7	7.8	252	90	ثانوية عامة / ازهرية
Technical secondary	62.5	65.5	68.8	68.5	68.9	16.4	23.4	66.6	90.7	65.1	2258	1803	ثانـــوى فنى
Above Intermediate	57.4	66.1	53.9	93.9	89.1	78.1	90.1	92.0	92.0	90.6	212	138	مؤهل فوق متوسط
University	54.5	88.4	86.7	89.7	95.7	48.7	95.3	93.0	99.9	76.1	3418	2228	مؤهل جامعى
Higher than university	94.4	100.0	97.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	36	36	اعلى من الجامعى

(7-3) Skills required in private sector business according to educational level

Percentage of jobs requiring intermediate level of skill or higher

Sub-major occupational group	قوى بدنية/مهارات يدوية Physical strength/manual skills	مهارات التعامل مع العملاء Customer service skills	مهارات العمل الجماعي Teamwork skills	مهارات التواصل والعرض Communication and presentation skills	مهارات حل المشكلات Problem solving skills	مهارات اللغة Language Skills	مهارات الحاسوب Computer skills	مهارات الحساب Numeracy skills	مهارات القراءة والكتابة Reading and writing skills	المهارات الفنية Technical skills	عدد العاملين Number of employees	حجم العينة من الوظائف الشاغرة Sample size of vacancies	المستوى التعليمي المطلوب للوظائف الشاغرة
Total	**57.0**	**66.7**	**70.4**	**67.0**	**67.3**	**15.0**	**23.4**	**42.6**	**58.4**	**51.4**	**286374**	**5354**	**الاجمالى**
No education needed	66.1	63.9	81.3	75.3	62.5	0.0	0.0	43.3	44.6	66.4	4471	243	لا حاجة الى التعليم
Read & write	59.4	36.6	42.5	16.6	20.2	0.2	0.0	3.2	3.8	59.2	79861	345	يقرأ ويكتب
Primary	50.7	22.9	46.0	24.3	30.3	0.2	0.0	27.7	5.8	30.1	2919	249	ابتدائية
Prep school	22.7	83.7	77.7	78.4	78.2	0.0	0.0	13.2	14.7	17.4	20827	479	اعدادية
General /Azhary secondary	77.8	48.1	79.8	52.4	52.2	43.1	0.0	4.5	94.1	77.8	709	106	ثانوية عامة / ازهرية
Technical secondary	61.9	68.1	73.9	87.9	86.7	5.9	3.0	49.4	81.6	26.3	95992	2294	ثانـــوى فنى
Above Intermediate	78.1	30.9	86.5	90.8	83.2	4.4	2.6	75.9	92.9	68.3	6030	270	مؤهل فوق متوسط
University	55.7	97.3	92.4	89.9	89.9	48.1	84.7	81.7	98.4	82.5	74780	1263	مؤهل جامعى
Higher than university	60.0	83.9	80.5	100.0	100.0	74.4	98.1	99.2	100.0	95.7	785	105	اعلى من الجامعى

Appendix (8)

(8-1) Net employment change and turnover rate in public sector and private sector establishments according to sub-major occupational group (two-digits)

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
Total	**25.23**	**5.90**	**9.67**	**15.56**	**1423258**	**2291702**	**14724634**	**33875**	**الإجمالى**	
Managers	2.48	0.30	1.39	1.09	22019	17320	1587237	3703	المديرون	1
Chief Executives, Senior Officials and Legislators	2.48	-1.46	0.51	1.97	3646	945	185238	1084	رجال التشريع وكبار المسئولين والرؤساء التنفيذيون	11
Administrative and Commercial Managers	2.27	-0.36	0.96	1.32	8078	5852	612549	1655	المديرون الاداريون والتجاريون	12
Production and Specialized Services Managers	0.84	0.00	0.42	0.42	1303	1288	308273	636	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	3.79	2.00	2.90	0.89	4292	13933	481177	328	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	15.57	-0.39	7.59	7.98	123661	130063	1629667	6589	الأخصائيون (أصحاب المهن العلمية)	2
Science and Engineering Professionals	37.94	-0.58	18.68	19.26	48524	47057	251927	1356	الأخصائيون في العلوم والهندسة	21
Health Professionals	11.04	-2.08	4.48	6.56	16791	11470	255880	505	الأخصائيون في الصحة	22
Teaching Professionals	20.04	-1.13	9.46	10.59	14987	13386	141563	1349	الأخصائيون في التعليم	23
Business and Administration Professionals	12.67	0.26	6.46	6.20	47828	49814	770827	2821	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	10.36	1.54	5.95	4.41	1067	1440	24192	211	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	0.73	-0.20	0.27	0.47	866	494	185279	347	الأخصائيون في القانون والعلوم الإجتماعية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	19.10	-4.90	7.10	12.00	87586	147974	1233398	5222	الفنيون ومساعدو الأخصائيين	3
Science and Engineering Associate Professionals	8.29	-3.14	2.58	5.72	44001	19837	769771	3516	الفنيون ومساعدو الأخصائيين في العلوم والهندسة	31
Health Associate Professionals	61.20	-6.22	27.49	33.71	42821	34915	127021	626	مساعدو الأخصائيين في الصحة	32
Business and Administration Associate Professionals	19.07	-10.91	4.08	14.99	30535	8313	203713	675	مساعدو الأخصائيين في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	43.37	-4.79	19.29	24.08	30571	24487	126940	362	مساعدو الأخصائيين في المجال القانوني والاجتماعي والثقافي	34
Information and Communications Technicians	1.34	-0.19	0.58	0.77	46	34	5953	43	فنيو تكنولوجيا المعلومات والاتصالات	35

(8-1) Net employment change and turnover rate in public sector and private sector establishments according to sub-major occupational group (two-digits)

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
CLERICAL SUPPORT WORKERS	16.43	-2.84	6.79	9.64	97737	138658	1438643	3889	الكتبة	4
General and Keyboard Clerks	22.21	-3.63	9.29	12.92	23886	17174	184856	653	الكتبة العامة وكتبة لوحة المفاتيح (الطابعون)	41
Customer Services Clerks	6.66	-1.16	2.75	3.91	16161	11363	413579	868	كتبة خدمات العملاء	42
Numerical and Material Recording Clerks	33.47	-4.10	14.68	18.78	77560	60631	412930	1022	الكتبة الرقميون وكتبة التخزين والنقل	43
Other Clerical Support Workers	6.93	-2.92	2.01	4.93	21052	8569	427278	1346	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	26.14	-3.19	11.48	14.67	533241	681404	4646155	4560	العاملون فى مجال الخدمات والمبيعات	5
Personal Services Workers	36.00	-2.84	16.58	19.42	199210	170041	1025591	2071	العاملون في الخدمات الشخصية	51
Sales Workers	25.21	-3.44	10.89	14.32	458131	348210	3198934	1241	العاملون في المبيعات	52
Personal Care Workers	19.80	-6.96	6.42	13.38	11317	5432	84581	69	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	6.62	-0.95	2.84	3.78	12745	9558	337049	1179	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	30.36	-27.87	1.24	29.11	2634	61660	211808	155	العمال المهرة فى الزراعة والصيد	6
Market-oriented Skilled Agricultural Workers	30.36	-27.87	1.24	29.11	61659	2634	211800	154	العمال المهرة في الزراعة والغابات والصيد وتسويق ومنتجاتها	61
CRAFT AND RELATED TRADES WORKERS	31.53	-8.98	11.27	20.26	162851	292652	1444769	2925	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	61.97	-14.60	23.68	38.29	43443	26875	113472	378	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	28.70	-8.26	10.22	18.48	75900	41969	410756	698	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	50.20	-30.94	9.63	40.57	83326	19787	205392	448	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	3.82	-3.25	0.29	3.53	3542	289	100214	201	العاملون في المهن الكهربائية الالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	26.08	-2.03	12.02	14.06	86441	73931	614936	1200	العاملون في تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	46.76	-22.84	11.96	34.80	133913	389650	1119763	4660	عمال تشغيل المصانع ومشغلو الماكينات وتجميع	8
Stationary Plant and Machine Operators	54.02	-28.58	12.72	41.30	353737	108955	856598	2921	عمال تشغيل الالات والمعدات الثابتة	81
Assemblers	87.41	-21.77	32.82	54.59	18318	11012	33553	235	عمال تجميع وتركيب وتشغيل الماكينات الالية	82
Drivers and Mobile Plant Operators	13.74	-1.59	6.07	7.66	17596	13946	229612	1504	السائقون وعمال تشغيل المعدات المتحركة	83
ELEMENTARY OCCUPATIONS	48.96	-12.22	18.37	30.59	259615	432320	1413194	2172	عمال المهن الأولية	9
Cleaners and Helpers	45.21	-0.04	22.58	22.63	104300	104097	460933	976	عمال النظافة ومساعديهم	91
Agricultural, Forestry and Fishery Labourers	95.86	-95.36	0.25	95.61	160017	422	167369	22	عمال الزراعة والغابات وصيد الاسماك	92
Labourers in Mining, Construction, Manufacturing and Transport	119.22	-4.06	57.58	61.64	51926	48509	84240	164	عمال المناجم والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	22.40	-7.62	7.39	15.01	12948	6372	86258	242	مساعدو معدو الأطعمة	94
Refuse Workers and Other Elementary Workers	22.95	-0.49	11.23	11.72	70137	67222	598509	761	عمال النفايات والمهن الأولية الأخرى	96

(8-2) Net employment change and turnover rate in public sector establishments according to sub-major occupational group

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
Total	**6.09**	**-3.58**	**1.26**	**4.84**	**8681**	**33354**	**689755**	**7422**	**الإجمالى**	
Managers	4.00	-3.65	0.18	3.82	196	4260	111370	1302	المديرون	1
Chief Executives, Senior Officials and Legislators	4.56	-4.05	0.25	4.31	157	2670	62007	705	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	3.57	-3.48	0.05	3.52	21	1472	41746	472	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	1.75	-1.23	0.26	1.49	19	107	7130	104	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	2.43	-2.43	0.00	2.43	0	12	487	21	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	4.04	-1.17	1.43	2.61	2219	4033	154727	1307	الاخصائيون	2
Science and Engineering Professionals	6.56	-1.09	2.74	3.82	1504	2102	54984	342	الأخصائيون فى العلوم والهندسة	21
Health Professionals	4.99	-3.57	0.71	4.28	21	128	2993	32	الأخصائيون في الصحة	22
Business and Administration Professionals	2.82	-1.21	0.80	2.02	639	1604	79553	768	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	2.59	-1.12	0.74	1.85	30	76	4090	62	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	1.10	-0.73	0.18	0.92	24	120	13073	102	الأخصائيون في القانون والعلوم االجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	6.68	-3.56	1.56	5.12	2384	7828	152847	1419	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	6.91	-3.79	1.56	5.35	2111	7236	135338	1163	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	7.09	-5.28	0.90	6.18	36	247	3989	51	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	4.15	-0.34	1.91	2.24	224	263	11734	172	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	10.66	-8.43	1.11	9.55	7	61	638	11	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	2.30	-1.31	0.50	1.80	6	21	1149	22	فنيو تكنولوجيا المعلومات والاتصالات	35

(8-2) Net employment change and turnover rate in public sector establishments according to sub-major occupational group

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
CLERICAL SUPPORT WORKERS	9.88	-6.51	1.68	8.19	1692	8231	100459	1242	**الكتبة**	4
General and Keyboard Clerks	9.43	-5.91	1.76	7.67	329	1434	18694	233	الكتبة العامون والطابعون	41
Customer Services Clerks	19.40	-10.37	4.51	14.89	773	2551	17136	157	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	2.92	-2.85	0.04	2.89	8	630	21837	366	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	9.81	-7.09	1.36	8.45	582	3615	42793	486	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	5.04	-3.08	0.98	4.06	562	2326	57271	830	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	6.82	-3.15	1.83	4.98	469	1273	25561	284	العاملون في الخدمات الشخصية	51
Sales Workers	2.57	-2.45	0.06	2.51	4	168	6709	154	العاملون في المبيعات	52
Protective Services Workers	3.89	-3.18	0.36	3.54	89	884	24990	391	العاملون في الحماية والخدمات الوقائية	54
CRAFT AND RELATED TRADES WORKERS	7.66	-5.37	1.15	6.51	560	3183	48864	544	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	8.87	0.27	4.57	4.30	419	394	9158	109	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	6.48	-6.13	0.18	6.30	32	1156	18339	228	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	9.54	-6.24	1.65	7.89	12	58	738	44	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	11.89	-10.31	0.79	11.10	93	1305	11755	75	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	3.09	-3.00	0.05	3.04	4	270	8874	88	العاملون فى تجهيز الاغذية والاخشاب والملابس وغيرها	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	7.97	-4.11	1.93	6.04	943	2951	48849	590	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	6.70	-4.22	1.24	5.46	218	962	17608	175	مشغلو المعدات والآلات الثابتة	81
Assemblers	36.50	-6.12	15.19	21.31	50	70	327	11	عاملو التجميع	82
Drivers and Mobile Plant Operators	8.39	-4.02	2.19	6.21	676	1920	30914	404	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	4.01	-2.32	0.84	3.17	125	470	14854	179	العاملون في المهن الأولية	9
Cleaners and Helpers	4.96	-0.46	2.25	2.71	118	142	5253	44	عاملو النظافة والمساعدون	91
Labourers in Mining, Construction, Manufacturing and Transport	2.30	-1.31	0.50	1.80	5	19	1029	20	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Refuse Workers and Other Elementary Workers	3.84	-3.81	0.01	3.82	1	300	7852	108	عاملو النفايات وعاملو المهن الأولية الآخرون	96

(8-3) Net employment change and turnover rate in private sector establishments according to sub-major occupational group (two-digits)

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
Total	26.17	-6.01	10.08	16.09	1414577	2258348	14034878	26453	الإجمالى	
Managers	2.36	0.59	1.48	0.88	21823	13060	1475867	2401	المديرون	1
Chief Executives, Senior Officials and Legislators	1.43	-0.15	0.64	0.79	788	976	123232	379	رجال التشريع وكبار المسئولين والرؤساء	11
Administrative and Commercial Managers	2.18	-0.14	1.02	1.16	5832	6607	570802	1183	المديرون الإداريون والتجاريون	12
Production and Specialized Services Managers	0.82	0.02	0.42	0.40	1270	1197	301143	532	مديرو الإنتاج والخدمات المتخصصة	13
Hospitality, Retail and Other Services Managers	3.79	2.01	2.90	0.89	13933	4280	480690	307	مديرو الضيافة والبيع والخدمات الأخرى	14
Professionals	16.78	-0.31	8.23	8.54	121443	126030	1474940	5282	الاخصائيون	2
Science and Engineering Professionals	46.70	-0.44	23.13	23.57	45553	46423	196943	1014	الأخصائيون فى العلوم والهندسة	21
Health Professionals	11.12	-2.06	4.53	6.59	11449	16663	252887	473	الأخصائيون في الصحة	22
Teaching Professionals	20.04	-1.13	9.46	10.59	13386	14984	141529	1348	الأخصائيون في التعليم	23
Business and Administration Professionals	13.80	0.43	7.11	6.69	49176	46224	691274	2053	الأخصائيون في الأعمال والإدارة	24
Information and Communications Technology Professionals	11.94	2.08	7.01	4.93	1409	991	20101	149	الأخصائيون في تكنولوجيا المعلومات والاتصالات	25
Legal, Social and Cultural Professionals	0.71	-0.16	0.27	0.43	470	746	172205	245	الأخصائيون في القانون والعلوم الاجتماعية والثقافية	26
TECHNICIANS AND ASSOCIATE PROFESSIONALS	20.85	-5.08	7.89	12.97	85202	140147	1080551	3803	الفنيون والاخصائيون المساعدون	3
Science and Engineering Associate Professionals	8.59	-3.00	2.79	5.79	17726	36765	634434	2353	فنيون واخصائيون مساعدون في العلوم والهندسة	31
Health Associate Professionals	62.95	-6.25	28.35	34.60	34879	42575	123032	575	اختصاصيو الصحة المساعدون	32
Business and Administration Associate Professionals	19.98	-11.55	4.21	15.77	8089	30272	191980	503	اخصائيون مساعدون في الأعمال والإدارة	33
Legal, social, cultural and related associate professionals	43.54	-4.77	19.38	24.16	24480	30510	126302	351	اخصائيون مساعدون في الشؤون القانونية، والاجتماعية، والثقافية ومن يرتبط بهم	34
Information and Communications Technicians	1.11	0.08	0.59	0.52	29	25	4804	21	فنيو تكنولوجيا المعلومات والاتصالات	35

(8-3) Net employment change and turnover rate in private sector establishments according to sub-major occupational group (two-digits)

Sub-major occupational group	"معدل الدوران Turnover "rate	"التغير الصافي "Net change	"معدل الحصول على وظيفة Job placement "rate	"معدل فقدان الوظيفة Job loss "rate	"العمالة المعينة Hired "workers	"العمالة المغادرة Departing "workers	"عدد العاملين في بداية المدة Number of employees at the beginning "of the period	حجم العينة من العاملين Sample size of employees	القسم الفرعي للمهنة	
CLERICAL SUPPORT WORKERS	16.92	-2.57	7.18	9.75	96045	130427	1338184	2647	الكتبة	4
General and Keyboard Clerks	23.65	-3.37	10.14	13.51	16845	22452	166162	420	الكتبة العامون والطابعون	41
Customer Services Clerks	6.10	-0.76	2.67	3.43	10590	13609	396443	711	كتبة خدمات الزبائن	42
Numerical and Material Recording Clerks	35.17	-4.17	15.50	19.67	60623	76930	391093	656	كتبة خدمات المحاسبة والتوريد	43
Other Clerical Support Workers	6.61	-2.46	2.08	4.54	7987	17437	384485	860	الكتبة الآخرون	44
SERVICES AND SALES WORKERS	26.41	-3.19	11.61	14.80	532679	679078	4588884	3730	العاملون في مجال الخدمات والمبيعات	5
Personal Services Workers	36.75	-2.84	16.96	19.79	169572	197937	1000030	1787	العاملون في الخدمات الشخصية	51
Sales Workers	25.25	-3.44	10.91	14.35	348206	457963	3192226	1087	العاملون في المبيعات	52
Personal Care Workers	19.80	-6.96	6.42	13.38	5432	11317	84570	68	العاملون في مجال الرعاية الشخصية	53
Protective Services Workers	6.84	-0.77	3.03	3.80	9470	11861	312059	788	العاملون في الحماية والخدمات الوقائية	54
SKILLED AGRICULTURAL, FORESTRY AND FISHERY WORKERS	30.39	-27.90	1.25	29.15	2634	61588	211294	146	العمال المهرة في الزراعة والغابات والصيد	6
Market-oriented Skilled Agricultural Workers	30.39	-27.90	1.25	29.15	2634	61588	211294	146	العمال المهرة في الزراعة والغابات والصيد وتسويق منتجاتها	61
CRAFT AND RELATED TRADES WORKERS	32.36	-9.11	11.63	20.74	162291	289469	1395905	2381	الحرفيون ومن إليهم	7
Building and Related Trades Workers (excluding Electricians)	66.63	-15.91	25.36	41.27	26456	43049	104314	269	العاملون في البناء ومن إليهم (عدا الكهرباء)	71
Metal, Machinery and Related Trades Workers	29.73	-8.36	10.69	19.05	41937	74743	392417	470	عمال الصناعات المعدنية والآلات ومن إليهم	72
Handicraft and Printing Workers	50.35	-31.02	9.66	40.69	19775	83268	204654	404	عمال الصناعة التقليدية والطباعة	73
Electrical and Electronic Trades Workers	2.75	-2.31	0.22	2.53	196	2238	88459	126	العاملون في المهن الكهربائية والالكترونية	74
Food Processing, Woodworking, Garment and Other Craft and Related Trades Workers	26.42	-2.02	12.20	14.22	73927	86171	606061	1112	العاملون فى تجهيز الاغذية والاخشاب والملابس	75
PLANT AND MACHINE OPERATORS AND ASSEMBLERS	48.53	-23.69	12.42	36.11	132970	386700	1070914	4070	مشغلو المعدات والآلات وعمال التجميع	8
Stationary Plant and Machine Operators	55.01	-29.09	12.96	42.05	108737	352775	838990	2746	مشغلو المعدات والآلات الثابتة	81
Assemblers	87.91	-21.93	32.99	54.92	10962	18248	33226	224	عاملو التجميع	82
Drivers and Mobile Plant Operators	14.57	-1.21	6.68	7.89	13270	15677	198698	1100	السائقون ومشغلو المعدات المتنقلة	83
ELEMENTARY OCCUPATIONS	49.44	-12.33	18.56	30.88	259490	431850	1398340	1993	العاملون في المهن الأولية	9
Cleaners and Helpers	45.68	-0.04	22.82	22.86	103979	104157	455681	932	والمساعدون	91
Agricultural, Forestry and Fishery Labourers	95.86	-95.36	0.25	95.61	422	160017	167368	21	عاملو الزراعة والحراجة والصيد المائي	92
Labourers in Mining, Construction, Manufacturing and Transport	120.67	-4.09	58.29	62.38	48504	51907	83211	144	عاملو التعدين والتشييد والصناعة التحويلية والنقل	93
Food Preparation Assistants	22.57	-7.68	7.45	15.13	6371	12939	85539	236	المساعدون في إعداد الطعام	95
Refuse Workers and Other Elementary Workers	23.20	-0.44	11.38	11.82	67221	69837	590657	653	عاملو النفايات وعاملو المهن الأولية الآخرون	96

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