



Profiling Report of Network Members

**Launch of Skills Development Network through
South-South Cooperation, ILO/China Partnership
Programme, 10 November 2021**

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CAMBODIA



- National Polytechnic Institute of Angkor (NPIA)
- National Polytechnic Institute of Cambodia (NPIC)
- Preah Sihanouk Cambodia China Friendship Polytechnic Institute (PCCFPI)

NATIONAL POLYTECHNIC INSTITUTE OF ANGKOR (NPIA)

I. Background

National Polytechnic Institute of Angkor (NPIA) is previously known as Construction site of vocational school which was built in 1992 and was under the Ministry of Education, Youth and Sports. It was transferred to under the management of Ministry Labour and Vocational Training in 2005. Then, it was upgraded and changed to be National Polytechnic Institute of Angkor in 2017.

Currently, NPIA has been providing the training at six levels in accordance with the National Qualifications Framework on technical skills in four priority sectors such as construction, mechanics, electricity and business and information technology.

II. Vision

NPIA is an excellence institute for multi skills which high technology, which is recognized nationally and internationally.

III. Mission

NPIA's mission is to provide specialized training for people in the workforce, especially young people, women and persons with disabilities to prepare for entry into regional and international markets.



IV. Training Programme

- **Bachelor Degree**

1. Electrical Engineering
2. Electronics Engineering
3. Computer Science
4. Architecture
5. Mechanical Engineering
6. Civil Engineering

- **High Diploma Degree**

1. Electrical Engineering
2. Electronics Engineering
3. Computer Science
4. Civil Engineering

- **Technical and Vocational Certificate (Level 1, 2 and 3)**

1. Building Electrical Wiring
2. Motorcycle Servicing
3. Computer Technician
4. Plumbing
5. Masonry
6. Automotive Electrical Servicing
7. Automotive Air-Condition Servicing
8. Air-Condition Servicing
9. Electronics



- **Technical and Vocational Certificate (Level 1, 2 and 3)**

1. Electricity
2. Air-Conditioner Repaired
3. Motorbike and Small Engine Repaired
4. Plumbing
5. Masonry
6. Computer
7. Technical Basic Work for Sound and Light on Stage
8. Motor Controller
9. Sewing
10. Baking
11. Silk worm Breeding
12. Mulberry Planting
13. Weaving
14. Silk Unwinding
15. Dyeing



V. Contact

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NATIONAL POLYTECHNIC INSTITUTE OF CAMBODIA (NPIC)

I. Background

National Polytechnic Institute of Cambodia (NPIC) is the biggest public institution in Cambodia who has capability to transfer high technologies to students. Under the management of the Ministry of Labour and Vocational Training, NPIC was officially inaugurated on May 16, 2005 by the Prime Minister Hun Sen. It is located in Prey Popeal village, Sangkat Samroung kroam, Khan Porsenchey, Phnom Penh.

NPIC is a standard technological institute in Cambodia which is recognized by the royal government of Cambodia and the republic of Korea. It is officially collaborated with Jeon Ju University, South Korea. To keep its equipment up-to-date in the face of rapid technological development, NPIC has developed an



extensive network of partners in the private sector that provides it with new equipment when needed. Partnerships with a German and Chinese Technology Institutes in late 2018 helped NPIC acquire nearly \$2 million worth of new equipment in telecommunications, mechatronic (including a CNC milling machine), and electricity.

II. Vision

NPIC aims to be a standard technical education and training institute in leading human resources training with a professional conscience, patriotism and contribute to the development of science, technology, economy and society.

III. Mission

To achieve their vision, NPIC has operated with the following missions such as:

- Training technicians at all levels, including: primary, high diploma, advanced and post-graduate techniques
- Make the best use of the capacity of civil servants, professors, workers, employees, students and the assets of the National Polytechnic Institute of Cambodia to develop the motherland.

- Increase the technical capacity of civil servants, staff, professors for the National Polytechnic Institute of Cambodia and vocational training institutions.
- Develop strategies to contribute to human resources development in the field of technical and vocational education and training.
- Develop curriculum, teaching methods, compile technical, scientific and professional documents in Khmer and foreign languages suitable for use and for general dissemination.
- Develop a plan to develop the National Polytechnic Institute of Cambodia in accordance with the needs of the domestic and foreign labor market.
- Liaise with universities, institutes, local and private partners, international and international partners, government institutions to exchange information, experience, new science and technology to make it more effective, sustainable and productive in training.

IV. Training Programme

NPIC has eight faculties and 20 departments including: Faculty of Social Science and Foundation Year; Faculty of Civil Engineering and Architecture (Civil Engineering and Architecture); Faculty of Electricity (Distribution and Transmission, Electrical Control Systems and Energy Technology); Faculty of Electronics (Electronic Engineering and Telecommunications); Faculty of Mechanics (Mechanics and Air Conditioning); Faculty of Automotive Mechanics (Electricity and Electronics, Automotive Engine, Chassis & Body); Faculty of Computer Science and Faculty of Tourism and Hospitality.

In addition, NPIC has an R&D Centre and a Department of Optical Science. The latter provides one- or two-year degrees to train optometrists. The R&D Centre has a \$20,000 annual fund to finance small student projects.

Currently, the eight Faculties are staffed with 212 teachers: 26 PhDs, 101 Masters, 90 Engineer-Bachelors and 43 Bachelors (e.g. Khmer language, chemistry, physics, etc.) NPIC offers the training programme as following:

- **Master degree**
 1. Electrical Engineering
 2. Mechanical Engineering
 3. Civil Engineering
- **Bachelor Degree**
 1. Civil Engineering
 2. Architecture
 3. Electrical Engineering
 4. Electronics and Telecommunication Engineering
 5. Mechanical Engineering
 6. Vehicle Mechanical Engineering

7. Computer Science
8. Tourism Management and Hospitality

- **High Diploma Degree**

1. Civil Engineering
2. Electrical Engineering
3. Electronics Engineering
4. Mechanical Engineering
5. Mechatronics
6. Vehicle Mechanics
7. Automotive Air-Condition Servicing
8. Industrial equipment
9. English Literature
10. Cooking
11. Optics
12. Computer Science

- **Technical and Vocational Certificate (Level 1, 2 and 3)**

1. Electrical Wiring
2. Mechatronics
3. mechanic
4. Telecommunication
5. Optics



V. Contact

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PREAH SIHANOUK CAMBODIA CHINA FRIENDSHIP POLYTECHNIC INSTITUTE (PCCFPI)

I. Background

Located in Pou Thoeung village, Bit Trang Commune, Prey Noub district, Preah Sihanouk province, Preah Sihanouk Cambodia China Friendship Polytechnic Institute (PCCFPI) was built on 10 December 2015 and completed on 09 June 2017, under the funding support from People Republic of China. It is in a special economic zone where there are approximately 200 factories and need 150,000 to 200,000 labour forces.

PCCFPI was established by the sub-royal degree on 04 October 2017 to be polytechnic



institute under the management of Ministry of Labour and Vocational Training in order to:

- Develop the education and vocational training curriculum in line with the competency standard, national qualification framework, and the need of labour market
- Develop and implement the long term, medium term and short term of institute

development plan

- Study, research and cooperate with national and international institute, national and international organization, non-governmental organization, and other relevant institutes
- Promote the technical competency and consultation to officials and technical instructors
- Prepare annual budget plan for the operation of the institute
- Manage the staffs, teachers, technical instructors, worker, trainer, students and other asset of the institute
- Mobilize the resource from other sources for the training and research
- Recruit trainee and student following the guideline of Ministry of Labour and Vocational Training

II. Vision

PCCFPI is a public higher education institution that provides technical and vocational education and training in response to the needs of the national and international labor

market in an equitable manner in order to contribute to poverty reduction in line with the Cambodian government's national development plan.

III. Training Programme

- **Bachelor Degree and Associate Degree**

1. Electrical Engineering
2. Electronics
3. Civil Engineering
4. General Mechanics
5. Vehicle Mechanics
6. Computer Science
7. Banking and Finance
8. Accountant and Finance
9. Tourism and Hospitality
10. English Literature

- **Technical and Vocational Certificate (Level 1, 2 and 3)**

1. Electrical Wiring
2. Vehicle maintenance and repairing
3. Computer
4. Construction cement mixer

- **Vocational Certificate**

- **Skill Bridging Programme**

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LAO PDR



ອົງການ
ແຮງງານ
ສາກົນ

ໂຄງການ
ຮ່ວມມື
ILO-China

- **Champasak Provincial Skills Development Center**
- **Lao-German Technical College**
- **Lao-Korea Skills Development Institute**
- **Lao Women Union (Training Center)**
- **Vetsaphong Technical and Vocational School (Private school under MoLSW)**
- **Vientiane Capital Skill Development Center**
- **Vocational Education Development Institute**

CHAMPASAK PROVINCIAL SKILLS DEVELOPMENT CENTER

I. Background

Champassak Skills Development Center. It is located at Jatsan Village (KM 7), Pakse district, Champasak Province. The skills center was established in 2007 under the assistance, monitoring, inspection of Labour and Welfare Social Champasak province. The total area of center is 13.2 hectares. Currently the center has 32 staff with 10 females. There is facilities such as theory building, two building of practice, one building for office and two dormitories. Currently, the center conducts training in 4 vocational fields, as well as short-term training and skills testing.



II. Structure and personnel 2021

Organization structure: Skills Development Center of Champasak Province has 4 administrator as follows: One Manager, three deputy of manger, consisting of 4 subordinate offices and 32 staff members, 10 females.

Training course:

1. Electrician-electronics
2. Cooking and Hospitality
3. Tailoring
4. Automotive Repair
5. Beauty and Hair dressing
6. Furniture
7. Construction
8. IT
9. Agriculture



Skills Testing:

1. Skill testing for welding, L3
2. Skill testing for instalation of industry electrice system, L3

Number of trainees in 2021: Total 130 people (71 Females)

- Training for 14 days = 40 people (40 females)
- Trianing for 3 months = 12 people (0 females)
- Training for 1 year = 61 people (25 females)
- Training for 2 years = 17 people (6 females)



III. Training Programme

- Short term Basic course for 5-10 days
- Sort term basic course for 7-14 days
- Short course Basic course for 3 months
- Course for L1-L4 (6months-2 Years)

IV. Trainess group

Graduate studymtent for highscool, unemployment, return migrants, group of people who want to change a job and target group from development partners.

V. Development partners

- Nisino Construction company
- Village Focus for International/ VFI project
- World concern
- International Labour Organization
- Skill Development Institute of Oubonlathsathani, Thailand
- Other skills centers/institutes in the country



VI. Contact

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LAO-GERMAN TECHNICAL COLLEGE

I. Background

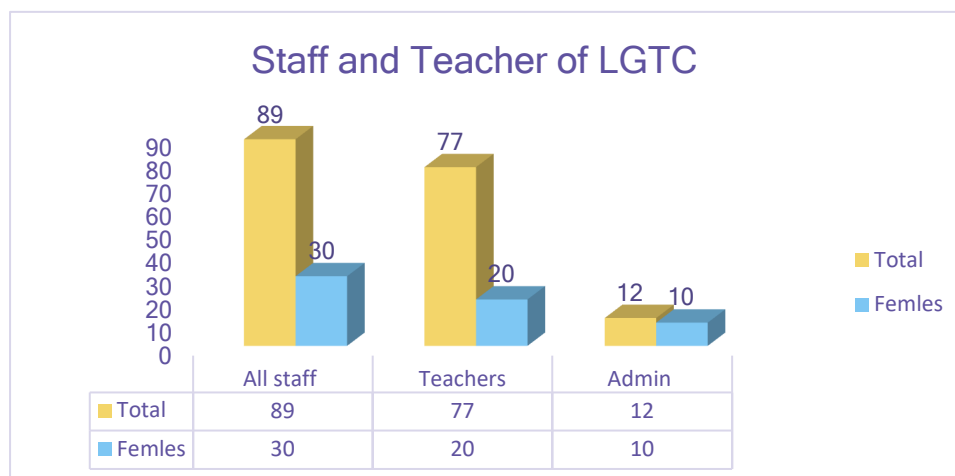
The Lao-German Technical College (LGTC) under Ministry of Education and Sport was established in October 1964 with a grant from the Government of the Federal Republic of Germany. It was built on an area of 26,280 square meters. It was handed over to the Lao government in 1972 and renamed the "Lao-German Technical Secondary School" after the country was liberated in 1975. The name was changed to "Vientiane Technical Vocational School" and in 1993-2014 it was renamed the "Lao-German Technical School". On July 21, 2015, it was upgraded to Lao-German Technical College until present.



From April 1, 2019 onwards, the construction of a new campus in Chiang Da Village, Xaysetha District, Vientiane Capital under the auspices of the German Government and the Government of Laos, the temporary opening will take place from December 6, 2019 onwards and the official opening ceremony will be held on December 18, 2020. At present, Lao-German Technical College has 2 campuses: 3 main campuses in Wat Nak village, Sisattanak district and Xieng Da campus in Xaysetha district.

II. Structure and personnel

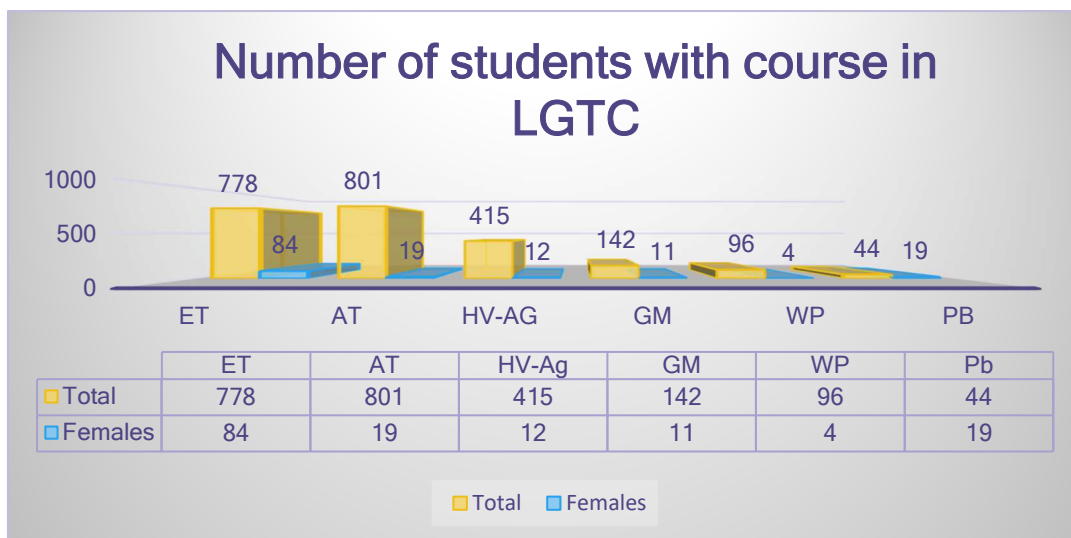
- **Staff and Teachers:** A total of 89 staff, 30 females. (Teachers = 77, 20 females. Admin staff = 12, 10 females)



- **Number of Students:**

In 2020-2021, there are 2,232 students, 143 females, as detailed below:

- o Electro-electronics (ET): 778 students, 84 females
- o Automotive Technique (AT): 801 students, 19 females
- o Heavy Machinery and agro-machinery (HV-Ag): 415 students, 12 females
- o Metal machinery (GM): 142 students, 11 females
- o Welding-Plumbing (WP): 96 students, 4 females
- o Phu Bia Mining (PB): 44 students, 19 females. This students was supported by Phu Bia Mining.



III. Training Programme

The college provide 5 main sections included Automotive, Metal Machinery, Electro-electronics, welding-plumbing, Heavy Machinery and Agro-machinery. The College semesters and grade are following:

- Intermediate course 9 + 3 system has a total of 498 students, 49 females**
 - o Y1 has a total student of 138 (15 female)
 - o Y2 has a total student of 97 (04 female)
 - o Y3 has a total student of 83 (13 female)
- Intermediate course 12 + 2 system has a total of 937 students, 18 females**
 - o Y1 has a total student of 541 (08 females).
 - o Y2 has a total of 396 students, 10 femals.
- Advanced Course 12+3 has a total of 665 students, 74 females**
 - o Y1 has a total of 325 students, 44 females
 - o Y2 has a total of 189 students, 17 females
 - o Y3 has a total of 151 students, 13 females

d. Continuing Advanced Course 12 + 2 + 1 with a total of 359 students, 25 females

- o Y1 has a total of 172 students, 12 females
- o Y2 has a total of 184 students, 13 females

IV. Partners

Lao - Germany Technical College cooperated with enterprises both public and private academic to share knowledge, experience and participate in the development of human resources emphasizing training profession is regulated Dual-Cooperative Training (DCT) in the previous year to send students to train with Toyota, Kubota, Nam Theun 2, Kolao group, enterprise of bus in Vientiane Capital, Khounta printing company Limited, Technical college in China and other companies.

V. Donor

BHS Company, CCS Company, World Bank (HMTA), KFW, RMA, Kubota, Phu Bia Mining.

VI. Contact

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LAO-KOREA SKILLS DEVELOPMENT INSTITUTE

I. Background

Lao-Korean Vocational Training Center has started operations. It was established in November 28, 2004 with a grant from the Government of the Republic of Korea. It consists of a two-story school building, practical building, and two story of office building, canteen and two story of dormitory.



In 2005 the Lao-Korea Skills Development Institute opened the training for first course of Level 1 in 5 course included Automotive Inspector and Maintenance Technician, Computer Technician, electricians, tailors and carpenters. Initially, there were 10 teachers and a number of trainees of the first batch was only 105 people.

In 2008, KOICA provided refining the curriculum and provide training equipment as well send volunteers to help in 5 areas and expand the training on 4 skills area included cooking, Beauty, Electronics and construction.

By 2014 in order to access to the ASEAN Economic Community (AEC), Ministry of Labour and Social Welfare propose to upgrade Lao-Korea Vocational Training Center to Lao-Korea Skills Development Institute. The role of institute are:

Continue to provide skills training to those who prepare for the labour market and those who want to be self-worker. There are 9 tasks according to the curriculum from level 1 to level 5 (base on skill standards).

- Test and issue skills certification.
- Continue to provide skills training for labour, self-worker in nine skill areas base on the curriculum from level 1 to level 5 (according to skill standards)
- Test and issue skills certification
- Scientific research for skill development
- Establish institutional skills competitions
- Establish skill standards
- Training, upgrading and training of skills development teachers and skills development administrators

- Develop curricula, textbooks, training manuals, training materials to serve the training.
- Manage technical skills development centers at the provincial level.

In 2017, the Skills Development Institute has received a grant from the Government of the Republic of Korea under Lao-Korea Skills Development Project for the Third Time, Focused on 4 major activities:

1. Renovation of school buildings, workshop buildings and dormitories.
2. Construct a new building with 2 stories, build a dormitory for female students. It can accommodate 200 people.
3. Training to improve the management of the institution's board, upgrade the professional teachers and creating a model curriculum and syllabus in 4 disciplines: Automotive teacher, Electrician teacher, Garment teachers and information technology teachers.
4. Provide training equipment and tools for the 4 above mentioned areas.

II. Structure and personnel

• Number of Teachers/Trainers 2019-2021

No	Position	Civil servant (Teacher)	Contract (Teacher)	Total
1	Institute board	3		3
2	Division board	12		12
3	Director Division	19		19
4	Administrative	4	3	7
5	Division of Information Technology	5	6	11
6	Electronic-electrician	2	3	5
7	Automotive repair and maintenance	2	2	4
8	Carpenter and construction	2	2	4
9	Tailoring	1		1
10	Cooking	2		2
11	Beauty Salon	2	1	3
12	Knit wigs		2	2
	Total	54	19	74

Remarks: Institute board, division and director of division and administrative has role to teaching student.

- **Number of students/trainees**

No.	Training sector	Graduate 2019	Graduate 2020	Trainees/students 2021
1	Information Technology	389	549	725
2	Electrician	182	375	484
3	Electronic	19	15	11
4	Automotive repair and maintenance	109	329	612
5	Construction	7	12	21
6	Carpenter	3	4	7
7	Cooking	15	112	137
8	Tailoring	21	30	46
9	Beauty salon	18	0	40
10	Knit wigs	125	146	179 (graduate)

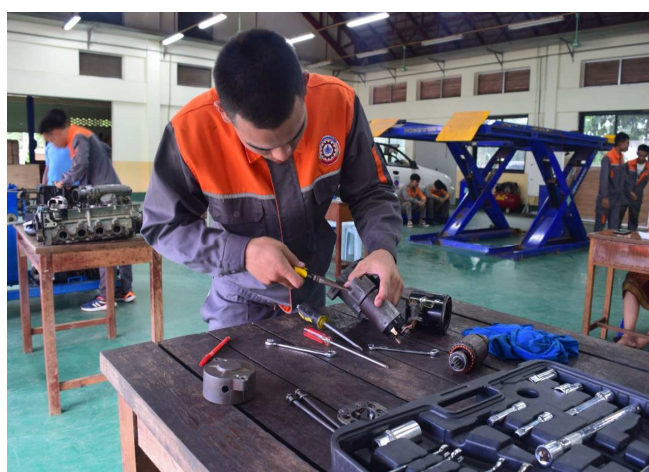
III. Training Programme

- **Skill Level / Curriculum**

- o Level 1: Basic skills that can be performed to some task.
- o Level 2: Semi-Technical skills that can be performed many tasks.
- o Level 3: Technician skills can be performed all tasks in the field.
- o Level 4: Technician skills, able to perform the job better than a skilled technician, as a leader.
- o Implement the plan set by the facilitator.
- o Level 5: Manager Skill able to plan, manage and be responsible for the work done.

- **Skills Training course**

At present, the Lao-Korea Skills Development Institute has continued to conduct training in 10 vocational fields such as:



No	Curriculum	Level 1	Level 2	Level 3	Level 4	Level 5
1	Technical information	6 months	L1+6 months	L2+6 months	L3+6 months	L4+6 months
2	Automotive repair and maintenance	6 months	L1+6 months	L2+6 months	L3+6 months	L4+6 months
3	Electrician	6 months	L1+6 months	L2+6 months	L3+6 months	L4+6 months
4	Electronic	6 months	L1+6 months	L2+6 months	L3+6 months	
5	Tailoring	6 months	L1+6 months	L2+6 months	L3+6 months	
6	Cooking	6 months	L1+6 months	L2+6 months	L3+6 months	
7	Beauty salon	6 months				
8	Carpenter	6 months	L1+6 months	L2+6 months	L3+6 months	L4+6 months
9	Construction	6 months	L1+6 months	L2+6 months	L3+6 months	L4+6 months
10	Knit wigs	6 months				

IV. Trainees group

- Workers who want to re-skill and up-skills.
- Student who completed secondary school. For people completed primary school or upper can enrol to study Beauty, tailoring and knit wigs sector.
- People who interested to work as self-employment.

V. Partners

In the past the institute sign MOU with government and private sector such as:

- AEK Company, Develop software (Ex. E-book, e-commerce)
- TVET, Ministry of Education and Sport
- Youth Union Training Department, Lao Youth Union
- Lao-Quality company (produce wig)

VI. Donor

- KOICA, Government of Republic Korea (Building, maintenance and training equipment for each phase)
- Government of Lao People Democratic Republic (cosponsor with the building, purchase equipment)
- Budget also come from trainee fee.

VII. Contact

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Vientiane Capital

LAO WOMEN UNION (TRAINING CENTER)

I. Background

Lao Women's Training Center is a first center of Lao Women Union, which was founded in 1989, during that time the center was called "Friendship School for training women and children". The role of this school is to promote the development of women and set up volunteer at village level (Developer) to work on dissemination and promote the role of women, health, education etc. The target groups will select a young woman of village from 4 provinces such as Vientiane Capital, Vientiane, Bolikhamxay and Kham Muan province.

In 1993 the center was renamed to "Friendship Center for the Development of Lao Women" The center has role as the secretary of the Lao Women Union to organize the training, development women, Reproductive health, Nutrition, AIDS and women facility Training. Dormitory for provincial women.

In 2001 was rename as "Lao Women Training Center" the role of center as the secretary of the Lao women Union in researching, developing curriculum and training about women, vocational and administrative management.

In 2012 to present "Lao Women Training Center" has role as secretary of committee of Lao Women Union to research and develop curriculum and provided curriculum, manual to vocation center of Lao Women Union in some provinces included Vientiane capital, Luang prabang, Xiengkhuang and Xekong provice which training of Lao Women role, vocational and Administrative management.



II. Structure and personnel

- **Staffs/ Teachers**

There are 76 staff, 64 females and 13 males. Contract staff is 55 people, 47 females and 8 males.

- **Number of students**

- o In 2019 a total student are 172 People, 171 females, 01 male (Received fund from Ministry of Gender and family of Korea about 160 people. And 12 student funding themselves)
- o In 2020 a total of 74 female students, students fund themselves for the training.
- o In 2021 a total of 22 females. Student fund themselves for the training.

III. Training Programme

- **Skill Level / Curriculum**

The Lao Women's Training Center has 2 level but currently conducting a Level 1 training.

- **Skills Training course**

- o Cooking and Hospitality
- o Tailoring
- o Hair Dressing
- o Housekeeping



IV. Trainees group

- Women who want to have a career. Students who drop out of primary, lower secondary and upper secondary
- Disadvantaged women in remote area.

V. Partners

- Lao Women Union
- Ministry of Gender and Family Korea.
- Women and Family Foundation Korea and the Asian Women's Organization.
- Ministry of Planning and Investment.
- Ministry of Education and Sport.

VI. Donor

- Ministry of Gender and Family Korea supported from 2016-2019.

VII. Contact

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VETSAPHONG VOCATIONAL SCHOOL / VETSPHONG SKILLS DEVELOPMENT & TESTING CENTER

I. Background

In 2014 Ministry of Labour and Social Welfare issue the agreement to established skills development and certification Vetsapong. Base on the advised and guidance from MoLSW, Vetsapong open to provide skill training in May 2015. There are 5 areas included cabinet making, Electrician, Construction, Metal carpenter and Food and Hospitality. There are 350 people was trained and get a job 90%. In 2016 school participated National skills competition II of MoLSW and get silver medal on cabinet making and participated ASEAN Competition XI in Malaysia and received one skills certification from ASEAN. In 2018 school participated National Skills Competition III of MoLSW and get gold medal and copper medal on cabinet making and participated ASEAN competition in Thailand and get only certification.

The skills development Vetsapong was upgrade to be Vetsapong Vocational Education School in 2019. And school open to train two areas in 2020-2021 included: Cabinet making and Electrician (9+3). The school using curriculum from TVET.



After implementation skills development from 2015-2020 and strategy of Vetsapong Vocational School 2021-2025, it showed graduate students have better job because of:

- The curriculum of skills development design for short term and focus on the important practice.
- Trainees is from poor family and want to earn and support their family.
- The strategy development 2021-2025 focus on the short term and long term learning because both term is important and need to be implement base on the current need of market.

II. Structure and personnel

- **Number of Teachers**
 - o Two Cabinet Making teachers
 - o Two Electrician Teachers
 - o One construction teacher
 - o One Metal carpenter teacher
 - o Two Information Technology Teachers

- **Number of students 2019 - 2021**

o Cabinet Making	=	25 people
o Electrician	=	20 people
o Construction	=	15 people
o Metal carpenter	=	15 people

III. Training Programme

There are two skills levels:

- **Basic skills**

- o Train occupational on Industrial and service base on the need of market.
- o Train occupational for National Competition and ASEAN competition base on the MOLSW.
- o Train the occupational that connect to Basic skills and second basic skills and Third basic skills to continue Simi-skills level.

- **Semi-Skills**

- o In the curricula level of Semi-skills included 9+3 and 11+12
- o Dual-Cooperative Training

- **Course/ Subject**

- o Basic skills:
Cabinet Making, Electrician, Construction, Metal carpenter, food and Hospitality, Household appliance repairman.
- o Semi-Skills:
Cabinet Making, Electric Electronic, Metal carpenter, Construction

IV. Trainees group

- People from poor families, students stay in remote area.
- People in Sikhothabong district, Vientiane capital. People of village will learn and practice as same time. After training people can work in industries where lacking labour.

V. Partners

- **Government Partners**

- o Department of Skills Development and Employment, MoLSW
- o TVET, Ministry of Education and Sport
- o Department of Industry and Handicraft, Ministry of Industry and Commerce
- o Lao-Korea Skills Development Institute
- o Vocational Education Development Institute
- o Xiengnue, Phoukhoun, Nambak, Pieng and Phouvong district.

- **Private partners**

- o LNCCI
- o Food industrial Association
- o Furniture Association
- o Industrial and Cabinet Making
- o Samath Technology Company

VI. Donor

- Vocational Education financing Facility (VEFF)

VII. Contact

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VIENTIANE CAPITAL SKILL DEVELOPMENT CENTER

I. Background



The Skill Development Center (SDC) was established in 1983 under the Department of Labor and Social Welfare (MLSW). In 1998, the Skill Development Center (SDC) was merged with the Vocational training center (VTC) of Vientiane Capital under the supervision of MLSW and was changed the name to Skill Development Center. (SDC).

From 2001 to the present, this center is under the supervision of Ministry of Labour and social welfare. The center was changed name to Vientiane Capital skill

Development Center (VSDC). Government's fund 100 %. There are two Class buildings, one administration office, and one female dormitory. There are 15 theory classrooms, 9 practice rooms and 2 meeting rooms

The center vision is aim for **Development the skill of human resources** especially the youths and worker to have qualities, ability and attitude in their work. Establishing and expanding new branches to the southern and northern of Vientiane capital. Development Infrastructure and Training facilities. Moreover, **Development human recourse in quality and quantity of instructors** by Upgrading the training center to the skill institution, Improve to the skill institution to smart institution and smart classroom in the future.

II. Structure and personnel

- **Number of instructors**

The number of instructors totally 45 staffs, 27 Female, there are 17 internship staffs, 9 Female Organization structure 1. The management structure consists with 4 offices - Personal and Administration office - Students administration and Activities - Science Research and academic management office - Skill Development Promotion office.

- **Number of Students**

No	Section	Total	Female
1	Beauty art and hair dressing	29	29
2	Design and Sewing	49	49
3	Cookery and Service	55	50
4	Cooling and Air conditioner installation section	29	0
5	Electricity installation	219	02
6	Computer and information	209	103
7	Management and accounting	229	224
	Sum	819	457

III. Training Programme

There are 7 training sections as per the list below. The trainees who attend the course lower than 6 months or less than 720 hours be able to get the certificate after training.

1. Beauty and hair dressing section
2. Design and sewing section
3. Cookery and Service section
4. Cooling and Air conditioner installation section
5. Electricity installation Section
6. Computer and information section
7. Management and accounting section



IV. Partners

- KOICA Korea supported: - 2006 - 2010 (Beauty art and hair dressing) - 2012 - 2016 (Cookery and Service)
- National Information Society Agency (NIA) Korea supported: year 2005, 2010, 2014 - supported PC - Dispatched KIVs Volunteers
- Guangzhou Punyu Polytechnic at Guangzhou, China 2020
- Vinhlong university at Vinh Long Province, Vietnam 2019

VI. Contact

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Address: Kaisonephomvihan Road Phonephanao village, Saysettha district, Vientiane Capital. Areas: 3.582 m2.



VOCATIONAL EDUCATION DEVELOPMENT INSTITUTE (VEDI)

I. Background

The Vocational Education Development Center has been upgraded to "Vocational Education Development Institute" on 11 April 2013. It also was upgraded to technical institutes Equivalent to the Faculty of the University on 20 September 2016.

The institute is responsible to develop and train vocational teachers and provided teacher to train for institution, training centers, public and private school throughout the countries, Research and analysis information about vocational education school, create and develop curricula for vocation education in various level and provide technical services, counselling, Teacher training for various establishments and labour units.



There are four divisions as follows:

- Personnel Management and Organization Division
- Academic and Student Affair Division
- Research and Development Curriculum Division
- Vocational Education Personnel Training Division

II. Structure and personnel

• Number of staff and Teachers

The Vocational Education Development Institute has 80 staffs and teachers (3 internships), 35 women, 5 doctoral degree, 21 master's degree, 40 bachelor's degree, 13 diploma degree, 1 intermediate level, in that 6 continue their bachelor's degree, 4 females, 18 people continue master's degree, 5 women, 11 people study abroad for Master's Degree, 2 women.

No	Division/Subject	Number		Education level					Remarks	
		Total	F	Doc tor al	Mas ter	Bach elor	Diplo ma	Inter media te		
I.	Division									
1	Personnel Management and Organization Division	11	7		1	4	6			
2	Academic and Student Affair Division	8	6		2	6				
3	Vocational Education Personnel Training Division	6	3	1	1	4				
4	Research and Development Curriculum Division	8	3		3	4	1			
II.	Subjects									
1	Business Administration and Services Teachers	12	9		2	5	2	1	2	Intern ship
2	Agricultural Teachers	9	7		3	5	1			
3	Mechanical Engineering Teachers	10	0		3	4	2		1	Intern ship
4	Energy and Mining Engineering Teachers	7	0	1	3	3				
5	Civil Engineering Teachers	6	0	1	2	2	1			
	Total:	80	35	5	21	37	13	1	3	Intern ship

- **Number of Vocational Teacher Students**

There are 289 Vocational Teacher Students, 103 women in the 2018-2019. 146 people, 61 women study diploma and 143 people, 42 women study bachelor's degree.

No	Vocational Teacher students	Subject					
		Total	Business Administration and Services Teachers	Agricultural Teachers	Mechanical Engineering Teachers	Energy and Mining Engineering Teachers	Civil Engineering Teachers
1	Bachelor degree	143	38	42	20	24	19
2	Diploma degree	146	86	3	23	16	18
	Total:	289	124	45	43	40	37

III. Training Programme

There are 5 main subjects as follows:

1. Business Administration and Services Teachers
2. Agricultural Teachers
3. Mechanical Engineering Teachers
4. Civil Engineering Teachers
5. Energy and Mining Engineering Teachers

Additionally, the Institute has the programme to promote, improve and cooperate with both public and private sectors in the society as per the list below:

- **Promote society and the business sector:**
 - o Developed 14 curriculums for public and private sector.
 - o Provided training to 115 vocational teachers.
 - o Lecturer of Development and using of curricula.
 - o Trained model trainers on the use of equipment for monitoring teaching and prior using in 22 vocational training institution. Total participants 70 people.
 - o Organized a meeting on Lao-China railway transportation at the Lao Front for National Construction Training Center in collaboration with the Kuivang Vocation & Technical College. Total 25 participants, 3 women.
- **Improve the design and development of vocational education curricula:**
 - o Co-Created 3 vocational intermediate courses (operation of the office and room, improvement
 - o Food and Beverage, Travel and Tourism Management manual).

- o Co-developed the construction, mechanical and electrical technology of Luang Prabang.
- o Researched and analysed curricula in the field of accounting and secretary of schools, colleges and institutes.
- o Developed vocational education to improve vocational and undergraduate teacher education curricula.
- o Developed vocational teacher education curricula in 3 area: mining, mineral processing, survey
- o Developed a joint secretarial formula with the Technical-Vocational, Luang Prabang Province and Developed a meteorological curriculum in collaboration with the Department of Meteorology and Hydrology.
- o Developed vocational teacher education curricula in two areas: business administration and agricultural.
- o Improving teacher training curricula and teacher training manuals to adapt to reality

- **Cooperation with in country and International**



- o Continue cooperation with Lao 029 project, SSTVET, UNFPA, VELA, Shangsha college, Hungyern and other
- o Cooperate with public and private business as less two companies.
- o Conduct research with international organizations such as the SWISS Foundation, RAVTE and others.
- o Research and exchange lessons with Kalasin University (Thailand), Agricultural University (Vietnam), Agricultural University (China).
- o In collaboration with the National Agriculture and Forestry Research Institute, the Bamboo Garden and the

Dok Keo Beach Center, the Nabong Faculty of Agriculture, National University of Laos, the Faculty of Forestry, National University of Laos, and the Lao-Vietnamese Youth Friendship Center.

- o Liaise with Faculty of Engineering teacher, Electricity Company to teach in some subjects.
- o Liaise with other companies in recruiting students for internships.
- o In collaboration with the Lao-German Technical College.

IV. Donor

- IV-Japan,
- VELA,
- SSTVET,
- UNFPA,

- TICA

VII. Contact

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MYANMAR



အပင်္ဂမဉ်းဆိုင်ရာ
အလုပ်သမားရေးရာအဖွဲ့

အိုင်အယ်အို -
တရုတ်မဉ်းသူသမ္မတနိုင်ငံ
ပူးပေါင်းဆောင်ရွက်သော စီမံကိန်း

- Center for Vocational Training (CVT Myanmar)
- No.2 Industrial Training Centre (ICT Mandalay)

CENTER FOR VOCATIONAL TRAINING (CVT MYANMAR)

I. Background

CVT is a non-profit-making organization, founded in 2002 and a Swiss Association registered in Myanmar as NGO 1/0136. It is following the sample of Swiss and German “Dual Vocational Education”, where practice and theory are combined. It is working together with its partner companies to train higher skilled labour following the aim of poverty reduction through skills development.

II. Vision

- Securing the future employment for the younger generation in Myanmar by vocational education
- Through education strengthen the country's economy and contribute to the needs of the industries
- Quality Approach: High skilled training through up to date curricula's and professional experts
- Improve business for the training companies and the entire economy



III. Mission

- CVT offers a high quality standard vocational model education inspired by the Swiss dual educational system
- CVT contributes to significantly improve the vocational education in Myanmar
- CVT/E4Y provides a bridge to reintegrate young people and enables them to start a professional career

IV. Training Programme

CVT in three levels:

1. Vocational Orientation (E4Y)
2. Technical & Vocational Education (Apprenticeship)
3. Further Education
 - i. In-Company Trainer (In-CTP)
 - ii. CVT Certified Instructor (CVT-CI)
 - iii. Young Entrepreneurs for Myanmar (YE4M)

1. Vocational Orientation (E4Y)

Vision

Implementation of the Lifelong Education for out-of-school children who have been in less pursue to education by providing of pre-vocational education to raise the country's next generation.

Mission

Endeavouring to attain the constant learning opportunities and jobs to the successful completion of E4Y generations with the collaborations of teachers, parents and relevant sectors by providing with holistic education in order to improve the learners.

E4Y provides:

- High quality education, which is assured through the partnership with Swiss experts in vocational and educational training
- A well-structured program composed of elements of both academic and practical education including development of self-confidence through the solution-oriented approach of lifelong learning, critical thinking and responsibilities
- Opportunities of continuing further vocational education at CVT in the form of apprenticeship
- Opportunities of continuing further vocational education pathway in TVET sectors
- A pathway to decent employment opportunities by collaborating together with private entrepreneurs

Education Plan

Being demand-driven and out-of-school children program, the schooling year is varied from three to four years. E4Y-Program allows the children to continue school and, therefore, increases their chances to receive a comprehensive vocational education later at CVT and to have decent job opportunities.

What and how do the students learn at E4Y?

E4Y encourages students' participation, involvement, creative thinking and innovation with the skill-driven curriculum.

The literacy & communicative skills are taught through:

- Myanmar
- English
- Mathematics
- General Science
- Social Science

Vocational skills are trained with

- Wood & Metal (Basic Carpentry & Drawing)
- Art & Crafts
- Textile (Handmade, Cross-stich, Embroidery, Crochet and Sewing)

Social & Environmental skills are practiced via:

- Life Skills/Human & Nature
- ICT (Computer Basic)
- Civic Education
- Career Development
- Sports (Indoor & outdoor games)

The encouragement of social competences like independent acting, working neatly and correctly, responsibility and organization is of great value to the E4Y. These important abilities along with a graduation later increase the chance of finding a decent job.



2. Technical & Vocational Education (Apprenticeship)

Dual vocational education is a two-tiered training program. CVT Myanmar offers an adapted version of the Swiss model, which has been guaranteeing a high employability and a high quality of skills in Switzerland for over 100 years.

One part takes place in a vocational school, and the other part is an apprenticeship at a company. At the CVT school, you learn about the theoretical knowledge for the specific job as well as about general education subjects. Everything you learn corresponds to the National Skills Standards.

You also learn “soft skills” like business etiquette, traits such as precision and accuracy, adherence to deadlines and reliability as well as familiarity with the customary forms of communication used in business. These soft skills are nowadays of outmost importance for a future on the labour market and it strengthens your self-confidence.

What you learn at school, you can practice at the company. The great thing is, that during an apprenticeship, you get certified and nationally recognized training, and at the same time you are already earning money: “Earn while you learn”.

Ideally, the training companies have CVT-certified instructor or In-Company Trainer who know exactly, what the students’ curriculum is. This way, the practical learning process goes along with the theory at school.

In dual vocational education, it is particularly important, that you, besides academic knowledge, also gain other, practical and personal skills at the company. As a full-fledged employee, you will later manage your own projects within the company, or even in your own company one day.

Courses

1. Business Administrator

A Business Administrator knows how to calculate the price of a product, treats customers in a friendly and professional manner, works with computer programs professionally, speaks and writes perfect Myanmar and speaks English in a business environment, among a lot of other things. The corresponding vocational training for the Business Administrator at CVT is based on training and learning at the vocational school, the training company and the practical training center (PTC). The training course takes two years. Students will get a Swiss approved diploma as Business Administrator when they pass the final exam.

2. Electrician

An Electrician generally works in the field of mechanical and electrical (M & E) systems engineering and energy which includes the installation, maintenance or repair of electrical equipment and a variety of electrical circuits.

An Electrician knows

- how to work with low voltage electrical installations,
- understands the entire work process and the standards required,
- works carefully and responsibly as a recognized electrician and
- he advises customers on the benefits and costs of electrical installations.



The corresponding vocational training for Electricians at CVT is based on training and learning at the vocational school, the training company and the practical training center (PTC). PTC provides basic practical knowledge in all areas of the profession and shows how theory can be put into practice. The training course takes two years. Students will get a certificate as CVT certified Electrician when they pass the final exam.

3. Furniture Technician

A Furniture Technician knows how to plan and produce objects or installation projects independently from start to finish. This includes the calculation of product price, the making of technical drawings (by hand and by computer-aided design software), the selection of appropriate materials, the application of suitable assembly techniques, the organization of manufacturing and installation on site. Other skills of the Furniture Technician include the professional communication with the team, the customer and the superior, the application of safety measures throughout the process, and basic soft skills (communication, computer literacy, etc.)

The corresponding vocational training for the Furniture Technician at CVT is based on training and learning at the vocational school, the training company and the practical training center (PTC). The training course takes two years. Students will get a certificate as CVT Furniture Technician when they pass the final exam.

4. Hospitality Professional

“Hospitality Professional” courses at CVT Myanmar enable you to learn the trade and graduate either in Food & Beverage Operation or in Front Office & Housekeeping Operation. The curriculum for the courses are based on the ASEAN Competency Standard for the Hospitality Industries. A mixture of theory and practical training will equip you with a wide range of knowledge and skills; you will thus become a qualified player in the hospitality environment.

A Hospitality Professional knows how to

- take reservations, carry out hosting functions, handle full-house situations, take and serve orders

- cultivate customer rapport, manage their needs and expectations
- service guestrooms, perform night-turn down service and complete end-of-shift activities
- manage and supervise duty rosters and room cleaning schedules
- prepare, cook and present dishes and food

The corresponding vocational training for Hospitality Professionals at CVT is based on training and learning at the vocational school, the training company and the practical training center (PTC). The training course takes two years. Students will get a certificate as CVT Hospitality Professional when they pass the final exam.

5. Metal Technician

Metal technicians are involved in creating new solutions to the problems of the industry. Metal technicians manufacture and assemble parts according to technical drawings, using a variety of materials, tools, heavy machinery and techniques. Metalworkers can also assemble components or finished products based on technical drawings. Metal fabrication is highly sophisticated work. CVT aims to create a foundation by providing comprehensive training to enable you to master the task. After completing the CVT apprenticeship training, 50% to 70% of the graduates receive a pay rise or a promotion at work.

A Metal Technician knows how to:

- process sheets, profiles, pipes and tubes mainly made of metallic materials and produce components and assemblies according to technical drawings and work instructions.
- produce devices, tools, spare parts and production parts in combination with assembling and joining work, applying the principles of work safety and environmental protection.
- develop a flexible mindset and become open to innovation. In collaboration with other professionals, Metal Technician are used to working in teams and project organizations.

The corresponding vocational training for Metal Technicians at CVT is based on training and learning at the vocational school, the training company and the practical training center (PTC). The training course takes two years. Students will get a certificate as CVT Metal Technician when they pass the final exam.

3. Further Education

Overall goal

The dual Vocational Training at CVT aims at improving efficiency and quality, at multiplying the know-how also in rural areas as well as to empower aspiring young entrepreneurs. The latter are encouraged to create their own business where they can apply and pass on what they have learned during their VET, and hopefully even employ apprentices.

According to the motto “Earn while you learn”, since 2014 CVT has been offering three different types of further education for:

In-Company Trainer

Overall goal (general impact of the subproject)

The In-Company Trainer course is a part time course aimed at teaching the basics of the dual vocational training model. The course gives the participants skills, knowledge, and attitude to carry out quality training to apprentices in the company and become more qualified instructors.

Almost all respondents expressed that the trainers fulfilled the expectations of the company. A total of 308 In-Company Trainers (49% female) have been trained.

CVT Certified Instructor

Overall goal (general impact of the subproject)

The CI program is aimed at giving the candidates a foundation in teaching and didactics, in professional education in practice and theory, followed by four weeks of evaluation at the company. The mission is to give the candidates knowledge and skills to become successful trainers and instructors in their professional field.

Approximately one in two graduated instructors are now teaching in Yangon and other places. A total of 142 CVT-certified Instructors (27% female) have been trained in the fields of Furniture Technician, Electrician, Metal Technician and Hospitality Service Professional.

Young Entrepreneur for Myanmar

Overall goal (general impact of the subproject)

This Program is providing small business management training courses to young entrepreneurs in Myanmar. The program will increase knowledge and skills of entrepreneurship development and business management.

A total of 380 Young Entrepreneurs have been trained (65% female). The average income of CVT Young Entrepreneurs increases minimum 15% – 20% within the first year after graduation.

V. Contact

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NO.2 INDUSTRIAL TRAINING CENTRE (ICT MANDALAY)

I. Background

The training centre is located in Aung Myae Thar Zan Township, Mandalay Region and the total area of the training centre is 85.92 acre and campus area is 25.92 acre. At first, it was opened as No.2 Automobile Serving Workshop in 1986 under the management of No.2 Heavy Industrial Corporation, Ministry of Industry No.2. No.2 ITC (Mandalay) Project was established by cooperation between Institute of Project Planning & Research Engineering International, Peoples' Republic of China and Ministry of Industry, Myanmar as an Economic and Technological cooperation between two countries and implemented in 2005 by utilizing a grant of RMB Yuan 30 millions (USD 4.8 millions) from Peoples' Republic of China and 4745.8 million Myanmar Kyats from Government of Myanmar. The project was successfully completed in August 2008 and the handing-over ceremony was held on 29th August 2008. 43 instructors attended the training at Kunming University of Science and Technology for 5 months.

The Batch (1) was started with (200) students on 16th October 2008. At present, the training centre had trained and certified 1736 students over 12 batches and we can accommodate 200 trainees in 1 batch.

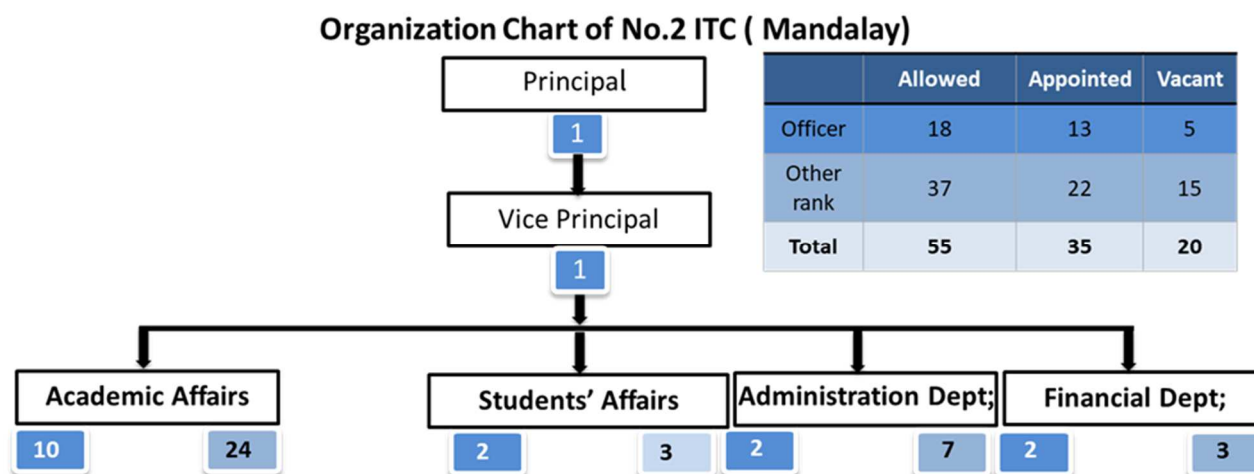
II. Mission

The mission of the training centre is

- To provide specialized training for people in the workforce, especially young people, women to prepare for entry into domestic and international markets.
- To increase the private sector cooperation of state-owned factories for the development of the private sector and to develop small and medium enterprises and improve the socio-economic life of the people.



III. Structure and personnel



IV. Training Courses

The training centre is offering the following courses:

1. Machine Tools Operator Course
2. CAD/CAM & CNC Operator Course
3. Electrician Course
4. Welder Course

- **Machine Tools Operator Course**

Major subjects are conventional machining, basic computer application & CAD/CAM, CNC programming & Machining, basic metal work and foundry technology. The total duration of the course is 1,400 hours.

- **CAD/CAM & CNC Operator Course**

Major subjects are conventional machining, CAD/CAM, CNC programming, CNC Machining, basic metal work and basic computer application. The total duration of the course is 1,400 hours.

- **Electrician Course**

Major subjects are basic computer application, electrical fitter, domestic wiring, industrial wiring and air conditioning & refrigeration. The total duration of the course is 1,400 hours.

- **Welder Course**

Major subjects are basic metal work, manual metal arc welding, gas metal arc welding, electroplating and surface treatment, basic computer application and heat treatment. The total duration of the course is 1,400 hours.

Competency Based Modular Short Course 3 months Training

1. Welder
2. Basic Mechanic

V. Contact

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CHINA



国际
劳工
组织

国际劳工组织 - 中国
伙伴关系
合作项目

- Baoshan Technician College
- Dongguan Technician College
- Guangxi Industrial Technician College
- Guangxi Technician College of Machinery and Electricity
- Guangzhou Industry and Trade Technician College
- Hainan Technician College
- Hangzhou Technician Institute
- Wuxi Technician College
- Yunnan Advanced Technical School of Electronic Information
- Yunnan Technician College

BAOSHAN TECHNICIAN COLLEGE

I. Background

Baoshan Technician College is located in Yongsheng Street, Longyang District, Baoshan City, Yunnan Province, adjacent to Baoshan Industrial and Trade Park. It is the southwest border of the motherland, bordering on Myanmar. Under the framework of the Belt Road Initiative, a number of international cooperation projects have been carried out.

- **School Profile**

Founded in 1965, the school has a history of 55 years. Baoshan Senior Technical School (Baoshan Secondary Professional School, Longyang District Vocational and Technical School) was upgraded to Baoshan Technical College with the approval of the People's Government of Yunnan Province in July 2016. The new campus covers an area of 560 mu. According to 15,000 students, construction area of 250,000 square meters, a total investment of 1.2 billion yuan to build a new campus. At present, the school's new campus has been completed and put into use.

The school has a strong faculty. There are 479 faculty members. There are 4 winners of "Ten Thousand Talents Program of Yunnan Province", 2 provincial Academic Leaders, 1 Provincial Famous Teacher, 14 Municipal Academic Leaders, 31 Municipal Core Teachers, 1 Yunling skill Master and 2 Yunling craftsmen. It sets up 28 majors (vehicle maintenance and repair, electrical automation equipment installation and maintenance, cooking (Chinese), machine tool machining (Turner), and maintenance of computer application, accounting, pre-school education, apparel design and production, animal husbandry and veterinary, high-speed). Car maintenance, electronic technology applications are the provincial core majors. At present, the school has more than 10,000 full-time students, and the annual training and appraisal scale reaches 20,000 person-times.

The teaching and practical training facilities are fully equipped. The value of teaching training equipment is 120 million yuan. The school has 90 professional training workshops, more than 1000 professional computer room. Every training rooms equip with multimedia classrooms and other modern, specialized teaching facilities; There are internship factories and provincial skill master studios, national training base for high-skilled talents, public training base of Yunnan Province, provincial campus entrepreneurship platform, provincial mass innovation space, and municipal mass innovation space. In recent years, it has obtained more than 120 awards above municipal level. Among them, Yang Jinlong and Jiang Yingcheng, who were selected by our school and sent to Hangzhou Technicolor College for further study, won the champion of automobile painting project in the 43rd and 44th World Skills Competition respectively.

II. Introduction of Advantage and Key Majors

• Auto Repair

The major of Auto Repair is a provincial backbone major with 16 experimental and practical training rooms, including 1 electric control training room, 1 spraying training room, 1 sheet metal training room, 1 testing training room and 1 vehicle comprehensive training room in the steel workshop. The factory has 2 engine training rooms, 4 electrical and circuit training rooms, 2 chassis training rooms (including automatic transmission), 1 hydraulic and electric suspension training room, and 2 air conditioning training rooms. The college has built master Yang Jinlong's studio and a new energy experiment and training base of more than 2000 square meters. The major of automobile maintenance has 1 Yunling skill master, 1 Yunling skill craftsman, 8 people with senior technician qualification and 3 people with technician qualification. Yang Jinlong and Jiang Yingcheng, the champions of the world skill competition car painting project, were invited to serve as honorary teachers. In recent years, professional teachers and students have participated in the competition with excellent results and won the first prize in provincial competitions for many times.

• Cooking

The cooking major is presided over by Master Xiang Kexue, chief technician of Yunling. The team of cooking teachers has rich practical experience, and all the teachers of specialized courses have advanced cooking professional qualifications. There are 14 cooking teachers and 10 basic course teachers in this major. There is a provincial skill master. The young teacher Wang Jiahui won the only gold medal in the Chinese point-mouth bass professional group with a high score of 94 points in the 22nd FHC China International Culinary Art Competition, which is the highest level intercontinental competition in China certified only by the World Chef Federation.

There are several training rooms and a teaching canteen for students, such as basic cooking skills training room, red case operation training room, pastry training room, catering training room, teacher skills teaching demonstration practice training room. Training rooms with a total area is more than 1000 square meters, each training room operation stations are over 40, has invested millions of yuan to buy a variety of cooking practice teaching facilities, for each of the students practical operation station is equipped with a match with the function of training rooms of all kinds of cooking tools and equipment, can meet all the school professional teaching need to cooking, training rate of 100%.

• Jewellery Processing

This major mainly focuses on cultivating students' actual carving ability and jewelry marketing ability. It has a number of training rooms for jewelry processing, including various equipment of manual carving, automatic carving and computer carving, as well as professional design rooms and exhibition hall for excellent works. Two students of our school represented Yunnan participated in the national final. In the first vocational skills competition of the People's Republic of China held in Guangzhou in December 2020,

- **Electrical Automation Equipment Installation and Maintenance**

Electrical automation equipment installation and maintenance has been established for more than 40 years, with a sufficient number of reasonable structure, good quality, unity and enterprising teachers. Thousands of highly skilled personnel have been trained for Baoshan Electric Power Company and hydropower station. In recent years, it has trained more than 300 technicians and senior technicians for the society.

In January 2020, Yang Zongna, a young teacher, won the second prize in the assembly and debugging and teaching of electrical and electronic products of the teachers' group in the teacher-student skills competition of vocational colleges in Yunnan Province. Dong Lihao won the third prize of the teachers' group in the electrical installation and maintenance and teaching competitions of electrical engineering and electronics. Teacher Gao Hongyan won the third prize in the construction technician engineering survey competition of the secondary vocational group.

III. Domestic and Foreign Project Cooperation

Domestic and foreign project cooperation already carried out with the support of Baoshan Municipal Party Committee and Municipal Government, the college has actively promoted the international cooperation of technical education under the framework of One Belt And One Road Initiative, and made positive contributions to enhancing the traditional friendship and promoting the cultural exchanges between China and Myanmar.

First, promote people-to-people and cultural exchanges in vocational education. In recent years, our school has received more than 10 Burmese teams and 865 Burmese winter (summer) campers to our school for fellowship activities. As well as has received the consul consulate in Kunming Wu Cypress, Mandalay Myanmar-China Friendship Association President Wu Bomin, Kachin state secretary of municipal committee honorary chairman Wu Naiwen, Mandalay women's Association chairman You Youmei, Wu Danwen, the chief executive of the Myitkyina town led the delegation to visit our school. The leaders and members of the visiting delegation spoke highly of the achievements of our school's technical education.

Second, open the door to conduct training for Myanmar. In recent years, our school has trained the Myanmar side in agricultural cultivation and cooking techniques. Myanmar has sent students to our school for short-term vocational skills training. In the period from March 2004 to May, 50 students selected by Kachin state came to our school for a 100-day agricultural training. The main training contents were as follows: cultivation techniques of rice, corn, cabbage, pepper, edible fungi, and cutting technology of grape, peach, plum, pear, chestnut, walnut and citrus. From August to September 2016, 32 students from Myanmar were selected to study cooking techniques in our school. The main contents of the courses were cooking theory, knife technique and dish making. Master Xiang Kexue, the chief technician of Yunling has taught more than 80 kinds of Chinese dishes to the participants.

Third, go abroad to conduct training in Myanmar. In November 2018, our school cooperated with the University of Michigan to send teachers to the University of Michigan to carry out a 30-day technical skills training. The training content was hydroelectric technology and Chinese cooking technology. The 60 trainees who participated in the training initially mastered the installation and operation technology of water and electricity and Chinese cooking technology. In December 2019, we sent teachers to Misheng School to carry out training on Chinese cooking techniques, with 45 trainees participate.

Fourth, cultivate Burmese overseas students in vocational and technical education. In recent years, our college has enrolled a total of 67 vocational and technical overseas students from Myanmar in 8 batches, and exempted all tuition fees for Burmese overseas students. The Burmese overseas students have studied in our school for 3 years, majoring in Auto Repair and Maintenance, Tourism Service and Management, E-commerce, etc. The Burmese students who have graduated from our school have found good jobs back to Myanmar.

- **The Situation of Domestic and Foreign Projects Cooperation**

On the basis of all kinds of international project cooperation and under the framework of One Belt and One Road Initiative, Baoshan Municipal Party Committee and Government builds construction industry and trade zone, as well as, Baoshan Technician College is required to set up Baoshan Technician College Mandalay (Myida) Vocational Training School and Myitkyina Vocational Training School, which will serve and integrated into One Belt and One Road Initiative actively. With close cooperation with Baoshan Industrial and Trade Park, and strong support from the Municipal Development and Reform Commission, the Municipal Foreign Affairs Office, the Municipal Government's Resident Office in Myitkyina, the education departments of Myanmar, local associations and chambers of commerce, Baoshan Industrial and Trade Park and Tengchong Boarder Economic Cooperation Zone. The college will continue to carry out international cooperation in technical education with Myanmar. The following projects are planned:

DONGGUAN TECHNICIAN COLLEGE

I. Background

Dongguan Technician College (short for DGTC), which was authorized to be founded by Dongguan People's Government in December of 1987, attached to Dongguan Bureau of Human Resources and Social Security, is currently the one and only state-run and national key technician college in Dongguan city. It has ranked among the Top 20 Guangdong Technician Schools and has been selected to be one developing organization of Guangdong Senior Skilled Technician Colleges. Besides, DGTC has been honored as State-level High-tech Talent Training Base, National Advanced Talents Training and Educational Organization with Outstanding Contribution, and Guangdong Training Base of Cantonese Cuisine Master, National Baking Training Centre for the 44th and 45th World Skills Competition (6 candidates were selected into the National Training Team).

Dongguan Technician College, which is awarded "The Most Beautiful Campus in Dongguan", has two campuses at present, both with elegant environment and good schooling condition, covers an area of 89 acres and has a total construction area of 300,000 square meters. The college's learner profile comprises 13034, and among them, higher vocational students account for 100%. DGTC has a strong and professional faculty force. The total number of existing staff is 748 and among them, 634 are full-time teachers, 98% of which have got their bachelor's degrees or above, more than 13% of which with master degree, 2 of them have got titles of a senior professional post, 76 with deputy senior titles, 191 with titles of senior technicians, 157 with the title of medium-grade technicians, and the junior lectures and technicians totaled 115. The college established 6 "Tutor's Workshops", 1 Provincial "Cantonese Masters' Studio". The backbone teachers of integrated-specialty have achieved 85%. Most of the teachers are provincial-level supervisors, assessors and excellent teachers and technical experts.

In September 2013, DGTC became the first to fully start Sino-German and Sino-U.K. vocational education cooperation in Guangdong Province by introducing occupational teaching mode from Germany, U.K., America, Canada, Australia as well as the area of China Taiwan, adopted advanced teaching ideas, teaching standards and methods, learning fields, management and assessment from the advanced areas in the world, means to develop high skilled technician talents for the enterprises. The college has innovated and practiced five vocational education modes: Advanced Skilled Talents Training Mode of "Skill Training + Degree + International Certification", New Enterprise-Apprenticeship Training Mode, School-Enterprise Dual System Training Mode, Training Model of Flexible Educational System for Staff Promotion, and Multi-subjects Integrated "Studying + Starting a Business" Training Mode. These five advanced modes are in the top rank in China and have become the new normal of vocational education. At present, the college has 3438 students involved in the international projects in total and offers 109 international cooperated classes including Sino-Germany, Sino-U.K., Sino-U.S.A, Sino-Canada, Sino-Australia Classes,

covering 30 majors such as Mechatronics, Mold Design and Production, Modern Logistics, Robotics, Hospitality, International Trade and etc., totaled 30 specialties.

Adhering to the principle of school-enterprise co production, the college closely cooperates with the enterprises to connect teaching content with enterprise production process and linking training with employment. It has built 19 Learning-based Teaching Factories, such as Automobile Hospital cooperated with Bosch (Germany), Jaguar-Land Rover Automotive Sheet Metal Learning-based Teaching Factory with Jaguar-Land Rover Company, Dongji Travel Service Agency with Dongguan CITS, Zhongxin Accounting School-enterprise Cooperative Learning-based Teaching Factory with Dongguan Zhongxin Tax Agent Office, Huaqiang Garment Learning-base Factory with Huaqiang Garment Co., Ltd., Talent Training Base with JD.com, and Googol Tech Industry 4.0 Learning-based Teaching Factory with Googol Tech (Shenzhen) Co., Ltd, to realize the seamless connection between graduates and enterprise positions. At the same time, the college deepens the reform of education and teaching system according to the principle of specialty group docking with industrial chain to integrates specialty departments into 10 secondary colleges, each of which is docking with an industrial chain; transforms the talent training standards of existing majors to be closer to the actual needs of the industrial chain; develops new majors according to the needs of the industrial chain; and introduces a series of scientific and technological R & D enterprises, such as Googol Tech, Zhong Ke Lan Hai, Qianhai Feiyang and etc.; has established the innovation and entrepreneurship platform of "government, university (industry, University and Research), capital and application" to actively constructed a new pattern of "Training personnel for tomorrow, and creating future for the talents."

Graduates from DGTC are welcomed by the world's top 500 enterprises, such as Huawei Machinery, Tianhong Technology, China Mobile, DHL (German Logistics Enterprise), for their solid theory, proficient skills, strong practical ability, and good professional consciousness. In recent three years, the average employment rate of college graduates is 99.05%, the rate of employment fitting in with the related specialty is 96.85%; the high-quality employment rate is 95.13%; and the satisfaction rate of employers is 99.25%. Over the past 30 years, DGTC have trained nearly 40000 graduates for the society, and most of them have taken management and technical posts in various industries. Graduates from Sino-German Cooperative class can be selected to work in famous German enterprises. In 2019, 43 graduates of Sino-German Cooperative class have been employed by the enterprises in Germany, which is highly praised by all sectors of the society. Yin Weimin, the former Minister of Human Resources and Social Security, pointed out that the DGTC's school-running mode can be summarized by "market-oriented, international standards, factory teaching", and emphasized that more other colleges should be like Dongguan Technician College who is able to create their own brand and establish the image for China's technician education.

II. Introduction of Advantage and Key Majors

Dongguan Technician College is planning to choose its 8 superior and key subjects to take part in “South-South Cooperation Skills Developing Net”, including: Mechatronics, CNC Processing, Mold Design and Manufacturing, Automobile Inspection and Maintenance, E-commerce, Fashion Design and Production, Cooking (Pastry Direction) and Hospitality.

- **Mechatronics**

The educational level of the Mechatronics is setting for senior technician, preparatory technician, and technician. There are more than 1400 students majoring this subject in the school, separately in 24 Sino-German classes and 2 Sino-Malaysia classes; 42 professional teachers are responsible for the classes, 24 are senior lecturers, senior internship instructors and senior technicians, 16 lecturers and technicians, 2 teachers have their own tutor studios and 4 are provincial technical experts; the Mechatronics Department has about 30 integrated training rooms for the professional departments and 6 Learning-based teaching factories whose total site equipment value are over 50million; it has 60 school-enterprise organizations; teachers and students of Mechatronic Department have won excellent achievements in national and provincial level skills competitions, and won 1 world-class awards, 6 national awards, and over 40 provincial and municipal awards.

- **CNC-Processing**

Dongguan is a demonstration city of high-end precision numerical control engineering in Guangdong Province, with 1050 equipment manufacturing enterprises whose output value achieved 35 billion yuan. CNC Processing in DGTC is the key construction major as well as one of the first batch of technician level Training Majors in Guangdong Province. The school level is high-tech, preparatory technician and technician. The department has 280 students and 8 Sino-German classes, 14 professional teachers, 10 senior technicians, 6 high-level lecturers and 8 teachers involved in German Integration Mode. In recent 3 years, the professional teachers published 28 papers and applied for 6 patents, 2 provincial projects and 4 municipal projects have been set up; There are 12 training rooms including mechanical drawing room, machining training room, fitter training room, numerical control training room, precision manufacturing training room, high precision measurement room, intelligent flexible production line training room, numerical control programming room, 3D printing training room, with a total asset of 140 million yuan. We have established in-depth cooperation with 60 enterprises of 3C in the local area and participated in provincial and national class I and class II CNC machining competitions during which we won 6 first prizes and 8 second prizes.

- **Mold Design and Manufacturing**

There are more than 2000 mold enterprises in Dongguan, which is the main mold products distribution base in Guangdong Province and the most comprehensive production base of mold industry chain. Mold design and manufacturing major of DGTC is a key developing major in Guangdong Province, which is one of the first batch of technician level Training Majors in Guangdong Province, with 240 students and 8 Sino-German classes. There are 12 professional teachers, 8 senior technicians, 4 senior lecturers, 8 full-time teachers have been trained in Germany. The teachers achieved a lot in recent 3 years, 22 papers have been published, 4 patents applied, 2 provincial projects approved, and 3 municipal projects approved. There are 12 training rooms including mold design room, machining training room, fitter training room, numerical control training room, precision manufacturing training room, high precision measurement room, electric cutting training room, mold comprehensive training room, numerical control programming room, etc., with total assets of 120 million. The department have established in-depth cooperation with 52 mold enterprises in the local region; it has participated in provincial and national mold competitions of Class I and class II, and won 2 first prizes and 4 second prizes.

- **Automobile Inspection and Maintenance**

The major of Automobile Inspection and Maintenance is a key construction major and is one of the first batch of technician level Training Majors in Guangdong Province. The educational level is setting for senior, preparatory technician and technician. There are currently students majoring this subject and 8 Sino-Germany classes. There are now 39 professional teachers, 22 senior lecturers, senior practice instructors and senior technicians, 11 lecturers and technicians, 1 tutor's studio and 4 municipal technical experts. In recent 3 years, 4 textbooks have been published, 3 teaching and training platforms have been developed, and 5 teaching and research achievements awards have been awarded. The existing automobile training workshop covers an area of more than 5000 square meters, with total 12 integrated theory and practice teaching and training centers (rooms) providing nearly 1000 working positions. There are 3 learning-base teaching factories, including Bosch Automobile Hospital, Jaguar-Land Rover Automobile Sheet Metal and Daimler Benz Automobile base. There are more than 1000 sets of vehicle and training equipment with a total value of nearly 40 million yuan. It has established a good cooperative relationship with more than 30 automobile industry associations, participated in provincial and national I and II class competitions, and won 10 first class awards and 7 national awards.

- **E-commerce**

E-commerce major is the key construction major in Guangdong high-level technician college, and is one of the training undertaking majors of teacher training base of Guangdong technical colleges. The school-running level of E-commerce is senior and preparatory technician. There are 778 students and 24 professional teachers, 4 senior lecturers, 5 with professional skill evaluators, 10 teachers with lecturing certificates of JD University, and 2 permanent enterprise tutors and 1 famous teacher studio; there

are 26 high-performance network rooms, 8 graphic workstations, a batch of photographic equipment, one operation room, two JD customer service centers and one cross-border e-commerce room. It has cooperated with more than 20 enterprises such as JD, Yinyin, Huicong, Zhongda Network Technology, Startup Technology and Weixingren Network Technology. It also participated in all kinds of activities and competitions, won the first, the second and the third prize of Dongguan University Students Entrepreneurship Competition, and the third prize of Guangdong Selection Competition of National E-commerce Competition.

• **Fashion Design and Production**

Fashion Design and Production is designed for senior technician level and the department now has 310 students and 4 classes involved in Sino-US and Sino-Australian cooperation. There are 15 professional teachers, 14 senior technicians, 1 teacher with master's degree and 1 famous master (Huang Gang) studio. In recent years, the teachers have published 3 papers and applied for 2 patents. There are 4 professional training workshops, 4 training rooms and 1 skill competition room, with a total value of 5.6 million yuan. It has established a garment learning-based teaching factory with Guangdong Huaqiang Garment Co., Ltd., and established an off-campus training base with SouYuTe Co., Ltd., as well as a good cooperative relationship with 13 high-quality enterprises such as Guangdong Metropolitan Beauty Industry Co., Ltd. and Guangdong Impressionist Clothing Co., Ltd.; it also actively participated in various skills competitions, and the students who participated in the fashion technology projects of the 46th world skills competition won the second prize in the selection competition of Guangdong Province and the third prize in the selection competition of fashion technology in the First National Vocational Skills Competition.

• **Cooking (Pastry Direction)**

The Cooking (Pastry) Department is for senior and preparatory technician level training and the department now 806 students, 6 enterprise named classes and 5 international cooperation classes. There are 45 professional teachers, 1 Chinese Cuisine Master, 1 national coach, 2 national technical experts, 4 Guangdong technical experts, 3 Dongguan technical experts, 14 senior technicians and 10 technicians in this major. There are more than 10 training rooms, such as Chinese pastry room and Western style pastry room, bakery base, cooking learning-based teaching factory, sugar-dough carve and mold training room, basic skills training room, etc., which can accommodate more than 400 learners at the same time. It cooperated with 30 school-enterprise cooperation units. In recent years, it sent learners to actively be participated in the world, national, provincial and other skills competitions, and won 1 International Award, 22 national awards, 78 provincial awards and 9 municipal awards. For example, Yang Xionsen won the world champion in the 48th UIBC International Young Bakers Competition; Huang Xingyan won the second place in the 46th world skills competition in China and the title of national technical expert; Wang Zhendi won the third place in the first Vocational Skills Competition People's Republic of China and the title of national technical expert.

- **Hospitality**

Hospitality Major is for senior technician training, with 300 students and 3 classes of Sino-U.K. cooperation, and 11 professional teachers. Among them, there are 1 senior professional title, 3 intermediate professional titles, 7 junior professional titles, 2 senior technicians and 3 technicians. In recent years, the paper, teaching plan, micro class and courseware made by the teachers have won 10 provincial teaching and research achievements awards, and 4 school-based textbooks have been completed and practiced in the hotel teaching. There are 1 comprehensive training room for Western food, 1 for Chinese restaurant, 1 tea art and 1 Hotel comprehensive training base, with a total value of 5 million. It actively cooperated with famous hotels to established off-campus internship bases, such as Guangdong Sanzheng Hotel Group, Dongguan Tangxia Sanzheng Banshan Hotel, Dongguan Kangdi Hotel, Dongguan Intercontinental Hotel, Dongguan Pullman Hotel, Dongguan New Dongcheng International Hotel, Shanghai Disneyland Resort, etc. In recent years, it has actively participated in the skills competition and achieved a lot, won the second prize of the National Tourism College Hotel Service Skills Competition, the second prize of the National Vocational Skills Competition, the gold prize of the Guangdong Tea Technician Vocational Skills Competition, the first prize of the Guangdong Bartender Skills Competition, and the fifth prize of Restaurant Service Project in the World Skills Competition.

III. Vocational Education Mode in Dongguan-International Cooperation in Joint Education

In response to the "talent Dongguan" development strategy in 2013, Dongguan Technician College (DGTC) are determined to reform and innovate, strengthen international cooperation. In order to deepen international cooperation in the training of skilled talents, Dongguan Technician College (DGTC) has been exploring an international cooperation in joint education, implementing and localizing the German "Dual System", British "Modern Apprenticeship" and other advanced vocational education modes in the world, and has gradually formed a new vocational education mode that adapts to the industrial needs of Dongguan and thus matches the characteristics of sustainable development strategy of Dongguan. Since then, through the introduction of foreign high-quality vocational education standards and resources, our college has deepened the integration of schools and enterprises, innovated the training mode of skilled talents, integrated the talent training standards into the social needs, the teaching process into the production process, the school development into the social and technological progress, carried out a series of multi-dimensional reform and innovation, and formed a professional group suitable for the national development and regional economy connecting with the secondary college management structure of "Industry Chain". The evaluation system of "Skills + Academic Qualifications + International Vocational Qualification Certificate" and the behaviour-oriented curriculum mode based on "Learning-based Teaching Factory" are established, so as to build the college into a base for cultivating high skilled talents' comprehensive vocational ability. In May 2018, German Business Daily organized a group to investigate our college, highly praised the achievements of international

cooperation in joint education of our college. Occupation magazine of the Ministry of Human Resources and Social Security of the People's Republic of China once praised the college as "a model of international cooperation in joint education of technical colleges", and international cooperation in joint education has become a benchmark

GUANGXI INDUSTRIAL TECHNICIAN COLLEGE

I. Background

Guangxi Industrial Technician College (Guangxi Petrochemical Advanced Technical School) was founded in 1978. It belongs to the Department of Industry and Information Technology of the autonomous region. The campus covers an area of 122 mu, the building area of the school is 117,400 square meters, and the total value of fixed assets is 300 million yuan. At present, there are more than 11,000 students and 523 teaching and administrative staffs, including 421 regular teachers, 89 of them have senior or associate senior titles, and 255 of them are double-qualified teachers. Among them, there are 1 specialist with special allowance of the State Council, 6 national famous teachers, 1 special grade teacher of autonomous region, 2 senior technicians with outstanding contributions of Guangxi, 15 technical experts of Guangxi and 29 professional (discipline) leaders of technical colleges in Guangxi.

There are 7 teaching units in the college; there are Department of Petrochemical Technology, Department of Mechanical Technology, Department of Automotive Technology, Department of Electrical Technology, Department of Information Business, Department of Modern Service, and the Center for General Education of Vocational Abilities. There are 42 majors in the six departments, which are petrochemical, non-ferrous metal metallurgy, machining, electromechanical technology, information technology, trade logistics, etc. The college has 9 model majors or key majors of the nation and Guangxi, 6 high-skilled personnel training bases (4 national level, 2 Guangxi level), 10 training bases (2 national level, 8 Guangxi level), 5 masters' studios (2 national level, 3 Guangxi level). Our electrical installation project and chemical laboratory technology project are selected to be one of the bases of 2020 Guangxi's World Skills Competition training team. The college also owns 2 Guangxi professional development research bases of vocational education, and 2 brand majors of Guangxi secondary vocational schools. We are the National Skills Identification Institute that is one of the first pilot institutions for vocational schools' grade recognition in Guangxi, and the social training evaluation organization vocational skill level identification pilot institutions, and the chemical industry vocational skill grade evaluation site, and the record organization for Nanning safety production training. We can carry out skill identification and vocational training for more than 100 types of specialty. We finished 35,000 training and identification for all works of life of in 2020.

Guangxi Industrial Technician College is a state-level key technical college with the largest scale technician school in Nanning, which is the capital city of Guangxi, and it owns distinct industrial characteristics and first-class teaching quality. It is one of the colleges with the largest number of students in the petrochemical industry in China, and also an important base for cultivating skilled personnel in the petrochemical industry and non-ferrous metal smelting industry (aluminum, copper, tin, nickel) in

China .It is a model school in the first batch of national demonstration schools for the reform and development of secondary vocational education, and it is the national high-skilled talent training base, and the teacher training base of mechanic colleges and universities, one of the important cultivating talented person bases of the one hundred billion yuan industry and the Beibu Gulf economic zone in Guangxi , and the first pilot colleges of the new apprenticeships in Guangxi, and the first pilot unit of modern apprenticeship of Guangxi, the five-star mechanic school of Guangxi, the key technical college for poverty alleviation with skills in Guangxi. We are the national civilized unit, national vocational education advanced unit, the national secondary vocational school moral education work advanced collective unit. We are awarded Huang Yanpei Vocational Education Outstanding School, Guangxi Zhuang Autonomous Region Model School Governing by law and some other honorary titles.

It is a model of connotation development, a model of school-enterprise cooperation in training skilled personnel, and a pioneer of taking the initiative to serve the regional industrial economy development characteristic innovation.

Since its founding, the college has cultivated more than 100 thousand graduates for the society. And most of them are employed in "14+10"100-billion-yuan industries in Guangxi, such as petrochemical, non-ferrous metals, metallurgy, automobile, manufacturing, electronic information, and other enterprises. Guangxi Industrial Technician College has made positive contributions to the economic and social development. It has also made a positive contribution to the construction of highly skilled talents in Guangxi industrial industry. It has an active impact on the construction of high skilled teachers in the whole region and the country.

II. Introduction of Advantage and Key Majors

Welding-processing, numerical control processing, mechanical-electrical integration, electrical automation equipment installation and maintenance, application and maintenance of industrial robot, New energy resources manufacturing and assembling, chemical technology, chemical analysis and inspection, application technology of IOT (as follows).

1. The major of Welding Technology

Founded in 1981, is not only one of the first key specialties in Demonstration Schools of China, but also is the key constructed specialties in Guangxi. The specialties of Guangxi Industrial Technician College are that it owns brand majors as famous as the other secondary vocational school in Guangxi.

Now, bases are set up for training high-talents. For example, Wang Xingping Welding Skill Training Workshop is the bases for training the teachers who are from the vocational schools in China. Meanwhile, it is used to demonstrate the vocational education and operation.

There are 15 welding technology teachers, among whom 80% are of middle and senior grades, and 81% are of double-qualified teachers in Guangxi Industrial Technician College. There are 1 national youth post expert, 2 winners of Guangxi May 1st Labor Medal, 4 academic leaders of Guangxi Technical Institute and 4 technical experts of Guangxi, too.

In the past three years, the students who were guided to participate in the national skills competition by teachers won 8 prizes in total. At the same time, in the competition of vocational colleges, the teachers were sent to the match also won 6 prizes in all. Among the trained skill talents, one was the first prize of the welding senior rank in the National Skills Competition of technical colleges.

In the 19th Linde Gold Cup International Young Workers' Welding Competition which held in Czech Republic, 2 students won the champion of two kinds of argon tungsten arc welding flame gas welding. Thus, the graduates of this major are in short supply for a long time.

The School-Enterprise cooperation was successively brought in to train high-skill talents and welding workers. There are famous local enterprises such as Guangxi Automobile Group co., LTD. Guangxi Construction Engineering Group No1. Installation co., LTD. Guangxi LiuGong Group co., LTD. etc. Senior technicians, a total of 1205 people, were trained by this way that enhanced the capability of social services and played an important role in National Vocational Education.

2. The major of chemical technology

Founded in 1990, it is a model major of Guangxi vocational education that the college is constructing, it is a model construction major of Guangxi. The college has Guangxi model training bases, public training bases for Guangxi technical schools, and national model training bases for vocational education and training in the petroleum and chemical industries.

There are 19 teachers in this professional group, among which 12 teachers own masters or associate senior professional titles, 10 teachers are senior technicians. The proportion of double-qualified teachers is 97% of the full-time teachers. We have 1 teacher who owns the National Excellent Teaching Team title in petroleum and chemical industry, 2 teachers are entitled Outstanding Teachers in national chemical vocational education, 3 teachers are entitled Specialty Leaders in Guangxi technical schools. We also have 17 referees or examiners of national skill competition. Our teachers won 45 prizes in teaching skills competition and scientific research achievements at or above the provincial level, among which Mr Wei Chun won the first prize in the National Vocational Competence Competition for Teachers of Technical Schools. We provide technical services and develop scientific research projects for many small and medium-sized petrochemical enterprises inside and outside Guangxi. In recent years, we have helped enterprises solve 5 technical problems, obtained 4

national patents, and won 2 honorary titles of excellent technical talents in the national petrochemical industry.

We construct the specialties in accordance with the idea of "Inheriting Advantages, Focusing on Features, Serving Regions, Matching Industries" and demands of market and employment. We cooperate with more than 20 strong enterprises in Guangxi to jointly construct training bases, teaching staffs, and vocational training, which is forming a long-term mechanism for enterprises. We carry out over 400 times every year in professional training for in-service staff and social staff. The 20 strong enterprises mentioned above are Shanghai Huayi Energy Chemical Co., Ltd (Guangxi Huayi), Qinzhou Petrochemical Industry Alliance, Guangxi Tiandong Jinsheng Chemical Co., Ltd, Baise Mining Group Co. Ltd, and so on.

III. Cooperation

- **The situation of projects cooperated home and abroad**

Relying on the China-ASEAN Vocational Education Talent Training, we plan to connect with ASEAN countries by the ASEAN Secretariat and we will spare no efforts to train the talents for emerging industries such as artificial intelligence and new energy vehicles.

We will do our best to do the training between domestic and foreign which contains the high-skilled talents and the staff training for China-Malaysia Industrial Park enterprises. We play an important role in the "Going into ASEAN" project. People's technology is well up-graded by this way. And the local economy was greatly improved according to the training services.

GUANGXI TECHNICIAN COLLEGE OF MACHINERY AND ELECTRICITY

I. Background

Guangxi Technician College of Machinery and Electricity is located in Liuzhou City, Guangxi Zhuang Autonomous Region, China. It is a national demonstration college of secondary vocational education with a long history and strong strength. It is also a national training base for high-skilled talent persons. The college has more than 11,000 students and nearly 600 teachers and administrative staffs. It trains and identifies more than 10,000 senior workers, technicians and senior technicians for enterprises every year.

Since the founding of the People's Republic of China, Liuzhou has been an important industrial center and transportation hub in Southwest China, and has had long-term, extensive, and deep political, economic, and cultural ties with Southeast Asian countries. Guangxi Technician College of Machinery and Electricity, founded in 1956, is the earliest technical school in Guangxi and the first technician college in Guangxi. Since its establishment, it has trained more than 100,000 medium and senior skilled talents for the society and enterprises and supported the development and growth of Guangxi and Liuzhou industry. It enjoys the reputation of "Cradle of Guangxi Mechanical and Electrical Technician Talent".

The college now offers 32 majors (jobs), covering mechanical processing, numerical control technology, automotive technology, electrical and electronic, information technology, modern service six categories. All Professionals docking industry development, building a sound training base, with a total value of nearly 200 million yuan, the college has built 95 on-campus training bases, including 1 China training base for the 45th World Skills Competition, 21 national training bases and 17 autonomous region-level training bases. It has "Multi Axis Machining Training Classroom", "CNC Precision Machining Training Classroom", "Robot Automatic Welding Classroom" and other national leading high-end training bases. Through school enterprise cooperation, we have built training bases such as "Bosch Automotive Diagnosis Center" and "DMG Mori China Certified Intelligent Manufacturing Center" with international well-known enterprises.

The college has a strong faculty. There are 508 full-time teachers, 489 with bachelor's degree, 40 with master's degree, 351 with double qualification, 11 with senior professional title, 89 with deputy senior professional title and 234 with intermediate professional title. There are 4 national skilled masters, 5 Guangxi skilled masters and 1 Liuzhou skilled master; 5 national technical experts and 49 Guangxi skilled masters; 3 teachers with outstanding contributions from national skilled talents and 1 national excellent teacher; and 5 teachers with special allowance from the State Council.

After more than 60 years of development and accumulation, the college has become a comprehensive skilled personnel training base integrating teaching, scientific research, production, staff training, skill appraisal and employment recommendation. It has a good information foundation and rich teaching resources, which will provide a good foundation for the successful construction and operation of the "South South Cooperation Skills Development Network" project and provide a reliable guarantee for enhancing South-South Vocational Education Exchange and Cooperation.

II. Introduction of Advantage and Key Majors

1. Intelligent manufacturing and processing Major--CNC Machine, CNC Milling, CNC machining center.

This major is a national training base for high skilled talents, National secondary vocational demonstration major, Demonstration specialty of equipment manufacturing in National Vocational Colleges, Brand specialty of Guangxi Secondary Vocational School, Guangxi model specialty. There are 1193 full-time students, and 2500 part-time students per year. There are 68 professional full-time teachers: 1 national skill master, 1 Autonomous Region skill master, 1 national skilled expert, 12 Guangxi technical experts. There are 7 national training bases, 4 autonomous region training bases, 1 national skill master studio, 1 Guangxi skill master studio. The total value of training equipment is 51.67 million yuan. The scale and level of the training base is in the leading level of similar majors in the national vocational colleges.

2. Electrical automation equipment installation and maintenance specialty.

This major is a national training base for high skilled talents, National secondary vocational demonstration major, Brand specialty of Guangxi Secondary Vocational School, Guangxi model specialty. There are 1196 full-time students, and more than 5000 part-time students per year. There are 60 professional full-time teachers: 1 national skill master, 3 national skilled expert, 1 Autonomous Region skill master, 7 Guangxi technical experts. There are 3 national training bases, 4 autonomous region training bases, 1 national skill master studio, 1 Guangxi skill master studio. The total value of training equipment is 31.7 million yuan. The scale and level of the training base is in the leading level of similar majors in the national vocational colleges.

3. Automobile maintenance specialty.

The major is a national secondary vocational demonstration major and a national training base for high-skilled talents. There are 2013 full-time students and 75 teachers, including one skilled master in Liuzhou, three technologists in Guangxi and one technologist in Liuzhou. Our social skills training is more than 800 trainees per year. We have a national-level training base. The total value of training equipment is 18.63 million yuan. The scale and level of the training base are at the leading level of similar majors in vocational colleges in Guangxi.

4. Computer animation specialty (digital game direction).

This major is the national training base for the 3D digital game art project of the World Skills Competition, the national high-skilled talent training base, and the leading unit of Guangxi Digital Industry Vocational Education Group. There are 1400 full-time students and 40 teachers, including one national technologist, two technologists in Guangxi and one skilled master in Guangxi. We have 2 national-level training bases, 6 autonomous region-level training bases and 2 autonomous region-level skill master studios. The total value of training equipment is 12 million yuan. The scale and level of the training base are at the leading level of similar majors in vocational colleges in the country.

5. E-commerce Program.

This major is a national training base for highly skilled talents and the leading unit of Guangxi Digital Industry Vocational Education Group. At present, there are 800 full-time students, 22 teachers (including one national technical expert and 1 skilled master of Guangxi), 3 training bases at the autonomous region level, 1 master studio at the autonomous region level. The total value of training equipment is 4 million yuan. Its scale and level of the training base is in the leading level of similar majors in Guangxi vocational colleges.

6. Welding Processing Program.

This major is a national training base for high skilled talents, a national secondary vocational demonstration major, a brand major of Guangxi secondary vocational schools, and a demonstration specialty of Guangxi. There are 220 full-time students and more than 2000 social skills training students every year. At present, there are 10 teachers (including 1 skilled master at the autonomous region level and 2 technical experts of Guangxi), 1 national training base and 2 training bases at the autonomous region level. The total value of training equipment is 4 million yuan. Its scale and level of the training base is in the leading level of similar majors in the national vocational colleges.

7. Mechatronics Technology.

The major is a demonstration teaching base in Guangxi and a training base for high-skilled talents in Guangxi. There are 220 full-time students and 15 teachers (including one skilled master of Guangxi and two technologists in Guangxi). Our social skills training is more than 2000 trainees per year. It now has a national-level training base and two training bases at the autonomous region level. The total value of training equipment is 6 million Yuan. The scale and level of the training base are in the leading level of the same kind of vocational colleges in Guangxi.

III. Domestic and international project cooperation that the College has carried out.

- **Case: School-enterprise jointly established "DMG MORI China Certified Intelligent Manufacturing Center".**

In order to deepen the reform of vocational education, improve the quality of talent training, and promote the exchange and integration of Sino-German international education, Guangxi Technician College of Machinery & Electricity signed a memorandum of cooperation with DMG Mori Seiki Machine Tool Trading Co., Ltd. on March 1, 2016.

Establish the "DMG MORI China Certified Intelligent Manufacturing Center", explore the "German dual system", promote the localization of the German dual system teaching model, and set up the "DMG MORI CNC Machining Technician Class" to promote the "integration of work and learning, competence-based" Reform the talent training model, reconstruct the CNC machining professional curriculum system, promote the reform of teaching methods and evaluation methods, and enhance teachers' professional teaching capabilities. In order to further consolidate the achievements of international cooperation and exchanges and broaden the channels of international cooperation, on April 18, 2019, Guangxi Technician College of Machinery & Electricity and Siemens (China) Co., Ltd. signed a strategic cooperation agreement to jointly build a "digital advanced manufacturing technology application center".

On June 13, 2019, Guangxi Technician College of Machinery & Electricity signed a cooperation framework agreement with German Chambers of Industry and Commerce Abroad Ltd. (AHK), and schools and enterprises jointly established the "AHK-DMG MORI Joint Certification Training and Certification Base". After more than 3 years of international cooperation in running schools, our school has accumulated a certain amount of practical experience in student training, teacher training, base construction, and production-education docking, with remarkable results.

GUANGZHOU INDUSTRY AND TRADE TECHNICIAN COLLEGE

I. Background

Guangzhou Industry and Trade Technician College (GZITTC), founded in 1958, is the first group of national high skilled talents training bases, the first group of Training Base of WorldSkills China, and national teaching resources training and research center taking the lead in schooling ability and talent cultivation level. In 2012, Outstanding Contribution Award of National Skilled Talents Cultivation was given to GZITTC by MOHRSS.

There are 5 departments of industries at GZITTC. They are Department of Advanced Manufacturing Industry, Department of Information Service Industry, Department of New Energy Application Industry, Department of Cultural and Creative Industry and Department of Commercial Service Industry with 36 majors such as the Industrial Design and the Computer Network Application and over 9100 people with full-time identity. In recent three years, we have organized teaching resources training and enterprise staff training for many times and have trained over 9500 personnel. GZITTC takes the lead in establishing the school-running and skilled-talent-cultivation mode of School-enterprise Cooperation Mechanism & Work-study Training Integration, cooperated with different famous enterprises, such as Huawei, of various forms, such as school-enterprise talents cultivation, new-type apprentice training in enterprises, technological innovation, product development and etc., constantly integrate industry and education, cultivate high-skill talents needed by modern industry development. The ratio of how much employees that the enterprises want and the number of our graduates is about 5:1.

The employment rate of graduates is as high as 99.77%. In 2011, 6 competitors of China competed in the WorldSkills Competition. 2 of them were trained at the GZITTC and they won 2 medallions of excellence. Still now, 20 competitors trained at the GZITTC in five consecutive WorldSkills Competition won total 3 silver, 6 bronze and 11 medallions of excellence for China. In December 2020, GZITTC teachers and students won 6 gold, 1 silver and 3 medallions of excellence at the first Vocational Skills Competition of the People's Republic of China. Therefore, GZITTC is the school which won the most gold medals in the WorldSkills Selection program all over China.

II. Introduction of Advantage and Key Majors

In recent years, GZITTC has actively responded to the Belt and Road Initiative, vigorously extended international training cooperation, shared the college's philosophy and mode of school running and experiences in skilled talent cultivation. It has offered training for nearly 1,100 government officials, vocational teachers, and

skilled talents from 19 countries along the Belt and Road, such as Bangladesh, Cambodia, and Pakistan. These training programs have been fully affirmed by trainees, the United Nations Environment Programme, the Ministry of Education of Bangladesh, and other partners.

1. Bangladesh Skills and Training Enhancement Project

From 2017 to 2019, GZITTC and the Ministry of Education of Bangladesh held a skills and training enhancement project to offer 3 types of training courses: Senior Leadership, Mid-level Manager Management and Specialist Teachers Training. The project trained 581 people who were officials from the Ministry of Education of Bangladesh, principals of vocational schools, and teachers from 6 specialties including the Refrigeration and Air Conditioning, the CNC Machining Operation, the Website Design and Development, the Automobile Maintenance, the Electrical Installation and Maintenance, the Design and Production of Garment Industrial Pattern. The training effect of the project was fully affirmed by the Ministry of Education of Bangladesh and highly appreciated by the trainees. The project made positive contributions to the development of vocational education in Bangladesh. In March 2019, GZITTC was invited to attend the International Skills Conference 2019 held in Bangladesh. Mr Zhai Enmin, the fifth-level staff (vice principal) of GZITTC gave a keynote speech on the topic Boosting Skills Development with the Help of Partnerships: Co-creation and Cooperation and Shared the Achievements of Cooperation in Vocational Education and Training.

2. Training Workshop on Good Practices for Installation and Maintenance of Air Conditioner

In 2017, GZITTC was nominated as the “International Exchange and Training Center of Good Practices for Refrigeration Maintenance Industry in China” by the United Nations Environment Programme and the Environmental Convention Implementation Technical Center, Ministry of Environmental Protection of China. GZITTC undertook refrigeration good practice training project for United Nations Environment Programme and carried out Extensive Training Workshop on Good Practices for the Installation and Maintenance of R290 Room Air-conditioner. During 2017 to 2019, the center held 7 international training and exchange activities, training a total of 131 refrigeration industry practitioners and professional teachers from Cambodia, Laos, Malaysia, Philippines, and other countries. Among these activities, one training was held for Cambodia specially, H.E. Heng Nareth, the Director-general of Ministry of Environment of Cambodia, Tep Navy, the Deputy Director General of Ministry of Labor, Mr Pipat Pooperasupong, the United Nations Environment Programme Senior Coordinator and other officials attended the event. 23 Cambodian practitioners from the refrigeration industry were trained. In addition, 4 practitioners from the refrigeration industry in Laos participated in the second batch of the training held by the International Exchange and Training Center.

3. Advanced Teachers' Training Program for National Vocational & Technical Training Commission, Pakistan

In May 2019, following the arrangement of the Department of International Cooperation, Ministry of Human Resources and Social Security of China, GZITTC cooperated with the Chinese Embassy in Pakistan to hold Advanced Teachers' Training Program for National Vocational & Technical Training Commission, Pakistan in Guangzhou. 12 Pakistani government officials and school principals in the field of vocational education led by Mr Muhammad Muqem-ul-Islam, the Director-General of the National Vocational & Technical Training Commission, Pakistan attended the training. GZITTC arranged courses such as "School-Enterprises Dual System, Work-Study Integration" Talent Cultivation Mode by International Standard, Curriculum System Construction and Implementation Under the New Concept of Work-Study Integration, and Policies and Measures of Vocational Training to follow the Industry Development. The training enabled trainees to conduct on-site investigations in school-enterprise cooperative enterprises such as York (China) Trading Company and Guangzhou Honda Automobile Co. Ltd. The visits helped trainees understand the mode and idea of skilled talents cultivation in China. In addition, the two parties also had a discussion on further cooperation and reached a preliminary cooperation intention.

4. International Seminar on Vocational Skills Development under the Framework of the Belt and Road Initiative

In December 2019, GZITTC co-organized the "International Seminar on Vocational Skills Development under the Framework of the Belt and Road Initiative" in Guangzhou. The Event was hosted by the Ministry of Human Resources and Social Security, with 205 guests from national government departments, universities, vocational colleges, technical colleges, society groups and enterprises in China, Cambodia, Laos, Malaysia, Myanmar, Sri Lanka, Thailand, and Vietnam attended. Among them, there were 15 vocational education representatives from Cambodia, 9 from Laos, as well as 5 from Myanmar. During the seminar, Tang Weiqun, Principal of GZITTC, and Zhai Enming, fifth-level staff (vice principal), participated the round table discussion as the special guests with the topics of "School-Enterprise Cooperative Teacher Training and Curriculum Teaching Reform" and "Construction of Exchange Mechanism for Skilled Personnel". In their speech, they shared the experiences and achievements in "School-Enterprise Cooperation, Work-Study Dual System" Skilled Talents Cultivation Mode, curriculum reform, teachers' training, training output and cooperation between schools and enterprises, which were highly recognized by the audience.

III. Cooperation

1. Specialties have been practiced in international training.

They are the Refrigeration and Air Conditioning, the CNC Machining Operation, the Web Design and Development, the Automobile Maintenance, the Electrical Wiring Installation and Maintenance, the Design and Production of Garment Industrial Pattern, the Marketing, the Mechatronics, the Computer Network Applications, and the Industrial Design. The above Specialties have developed international training courses and have cultivated a group of trainers with international training skills.

2. The Specialties with Great Advantages in Domestic Vocational Skills Training.

They are the Mechanical Engineering CAD, the E-commerce, the Logistics, the Computer Advertising Production, the Interior Decoration, the CNC programming, the Maintenance and Electrical Engineering, and the Mold Design and Production. The above-mentioned specialties have been set up a strong teaching team by the WorldSkills Competition coaches, national technical experts, Guangdong Provincial technical experts, senior technicians and etc.

HAINAN TECHNICIAN COLLEGE

I. Background

Hainan Technician College (Hainan Senior Vocational Technical School) was established in 1958 with two campuses respectively located in Fucheng in Haikou City and in Chengmai old town in Hainan Province, with occupying by 533 acres in total. Among which, it has 60 acres for the campus in Fucheng and 473 acres for the one in Chengmai old town. It was approved as a "Senior Vocational Technical School" by the Ministry of Labor and Social Security in December 1999. In 2010, the School was approved by the Ministry of Human Resources and Social Security to make preparation to establish "Hainan Technician College", and it was officially established with the approval of Hainan Provincial Government in June 2012, which became the first technician college in Hainan Province. At present, there are 628 faculty members in the college, 14 were awarded the "National Technical Experts" by the Ministry of Human Resources and Social Security, 22 teachers were awarded "Nanhai Crafts Persons" in Hainan Province, and 194 people were recognized as high-level talents. The School was rated as a national demonstration school in terms of secondary vocational education reform and development and a national high-skilled vocational training base. It is successively awarded many honorary titles as the Advanced Team in the National Labor Security System, the Advanced Group in the National Education System, the Demonstration Base for Training of High Skilled Talent in Machinery Industry, and the Annual Excellent Scientific Research Institution of China Vocational Association, one of the top ten outstanding institutions on Industry-University-Research Integration within the period of the Twelfth Five-Year Plan in Hainan Province, the 4th round of Huang Yanpei Excellent School on Vocational Education, and Hainan Provincial "May Day Labor Certificate".

II. Introduction of Advantage and Key Majors

- **Professional settings in the college**

At present, there are 9 teaching departments and 8 professional groups in the college, which consists of 24 majors under the Department of Electronic Technology and Automatic Control, the Department of Vehicle Engineering, the Department of Mechanical Engineering, the Department of Computer Application, the Department of Tourism Management, the Department of Environmental Engineering and Protection, the Department of Art, and the Department of Food Engineering. Skilled workers at intermediate level and senior level as well as preliminary technicians are trained in the College. More than 3,000 new students are enrolled every year. The goal of obtaining employment after graduation is achieved with the annual rate at above 98% on student employment and 82% for the job-major matching. More and more graduates are being provided with skills on automobile operation and maintenance, machinery manufacturing, electrical operation and control, tourism hotel service, environmental

protection engineering, biopharmaceuticals, computer applications as well as arts and crafts designing and production.

1. Teachers and students of the college achieved excellent results by participating in the national vocational skills competitions and teaching competitions.

The college has made great improvement year after year with participation of the World Skills Competition China Tournament organized by the Ministry of Human Resources and Social Security. We have continuously participated in the 43rd, the 44th and the 45th World Skills Competition China Tournament since 2014. There are a total of 15 competitors from 7 competition items have been selected to join the national training team. In the 45th World Skills Competition held in 2019, 8 competitors from 7 participating items were shortlisted into the national training team, and 2 competitors became candidates of the World Skills Competition. The college was approved by the Ministry of Human Resources and Social Security as the national training base on Plastic Mould Engineering, Mechatronics and Cloud Computing for the 45th World Skills Competition. We won 2 silver award, 1 bronze award and 17 prizes for excellence in the first National Skills Competition in 2020. There were 10 competitors involved in 9 items shortlisted into the National Training Team for the 46th World Skills Competition, 11 competitors won the top 5 in the country and 9 were awarded as the "National Technical Expert".

The college ranks among the best in the skills competition organized by the Ministry of Education for the secondary vocational colleges. Since 2017, we have won 1 first prize, 15 second prizes and 18 third prizes (we ranked at No. 6 in the number of awards won by secondary vocational schools in the National Vocational College Skills Competition in 2019).

The teachers of the college have performed well in the national teaching competition. In the "2019 National Innovation Cup on informatized teaching design competition for morality teachers in the secondary vocational schools", Liang Ting, a professional teacher on morality education, won the first prize, who was the only teacher from the vocational technical colleges among the winners of this competition in Hainan Province.

Chen Jiayao, a teacher from the College Culinary Department, won the gold medal in the 8th National Cooking Skills Competition Hainan Tournament. He also participated as a representative of Hainan Province and won the "Special Gold Award" in the national competition. There were 1 first prize, 5 second prizes and 6 third prizes that we won from the national competition on professional competence of teachers in the secondary vocational technical colleges held in 2019 and 2020. 1 second prize was won in the competition on ability of class teacher in the secondary vocational schools in the duration of National Vocational College Skills Competition in 2020.

2. Restructuring majors and setting-up curriculums in the college

With full efforts to build a free trade zone/port in the province, we focus on the combination of the demands of twelve key industries in Hainan with the settings of curriculums so as to achieve the integration of the vocational education and the industrial chains. We therefore pay close attention to the development of high and new technology and provide practical skilled talents for some top industries such as the Internet of Things and robotics. In the matter of curriculums, some subjects on environmental protection and new energy vehicles are involved.

With regard to the study on accounting, we strengthen the knowledge study on laws and regulations in terms of international transactions, international commercial law and international trade law. We highlight foreign language training for the courses on tourism. Through restructuring majors and reform on curriculums, students are not only required to acquire strong vocational skills, but also to have the ability to apply comprehensive knowledge. In addition, it is necessary to strengthen the development of traditional specialties, such as we can strive to expand Hainanese cuisine in the major on cooking.

As an institution for vocational education, the college will continue to carry forward the intangible technology and cultural heritage in Hainan. Thus, we will do a good job in the inheritance of handicraft arts on coconut carving, shell carving and wood carving as well as the training of talents with vocational skills so that the excellent culture of the Chinese nation can be extended, and the traditional handicraft arts can be inherited.

Regarding the development in the future, the college introduced the concept of "Belt and Road" initiative in an innovative manner, not only to bring in the advanced international vocational education, but also to open our technical education to Southeast Asian countries. We strive to achieve a win-win situation, and meanwhile to create a regional highland for training of skilled personnel.

III. Cooperation

• Cooperation between school and enterprises

The school-enterprise cooperation is deepened, and all departments are fully covered in the college. We have established interconnection relationships with four industry associations for mutual assistance, in which Hainan Mechanical Engineering Society is included. We also signed a few agreements with 20 companies/enterprises, which including Hainan Mining United Co., Ltd. and Hainan Weite Electrical Engineering Co., Ltd. to establish practice and teaching workplaces as well as to implement training courses for preliminary technicians. We cooperated with some large-scale enterprises (for example Siemens and Sany Heavy Industry) to setup a number of training courses under school-enterprise cooperation and establish solid cooperation with more than 200 companies/enterprises including Yingli Group and Hainan Airlines Group.

As sound connection between the college and the enterprises has been created, the graduates can be employed in these large-scale enterprises. In the past two years, we have established some school-enterprise cooperation programmes which can be shown as follows: (i) Memorandum of Cooperation in respect of education was signed with the Dutch College of Canadian Prince Edward Island; (ii) An agreement in terms of educational internship cooperation was reached to Chengmai Longpan Oilfield Science & Technology Company. It became the workplace on teaching and internship for the college and can provide students with workplace and equipment for internship and practice; (iii) An agreement was signed on cooperation with Shenzhen Tianfa Education Group with aiming at the advanced high-tech development from international perspective. We setup a major on robot design so that the graduates can seek jobs from large-scale robot manufacturers, large-scale electronics factories, automobiles and auto parts industries; (iv) An agreement was signed with Haikou High-tech Zone on strategic cooperation framework; (v) In response to the target of building a major marine province in Hainan, we created some cooperation programmes with the Far East Shipping Company and Shuncheng Shipping Company to focus on English language training for seafarers and sailors; (vi) An agreement was signed on industry-university cooperation framework. The involved institutions are Hainan Avatar Human Resources Services Co., Ltd. and some joint-venture enterprises in Qiongtai. We are going to cooperate to establish mechanism and workplace for talent training for the health service industry.

- **The situation of international schooling**

As the rise of China's status and influence in international society, especially after the "Belt and Road" initiative was put forward, cooperation programmes have been deepened continuously with the countries along the route in various aspects, which has stimulated the demands for talents who are proficient in Chinese and have multiple professional and vocational skills. In order to implement the "Belt and Road" initiative and the proposal came up from the Ministry of Human Resources and Social Security on "Supporting Hainan to Deepen the Reform and Opening Up on Human Resources and Social Security" as well as the joint action plan issued by the Ministry of Education together with Hainan Provincial Government on "Supporting Hainan to Deepen the Reform and Opening up on Education", Hainan Technician College has stood up in a leading position to expand its ideas for running schools and continuously innovated the concept for training of high-skilled personnel. In this way, we can meet the requirement to construct an "International Education Innovation Island" in Hainan and strengthen the cooperation on education between the countries along the "Belt and Road". With the approval by Hainan Provincial Department of Human Resources and Social Security and the Hainan Department of Education in 2019, we have reached a cooperation consensus with several overseas Chinese education model schools (such as the Chinese School Association in South Thailand) and launched "Belt and Road - Chinese Language Plus" which is a curriculum programme for training high-skilled talents. We therefore become the first technical college in Hainan which can recruit international students.

(1) Progress has been made from international courses, which has established a training platform on vocational skills for Southeast Asian countries

There are a total of 39 students from Thailand who have been enrolled by two terms in the curriculum programme on "Belt and Road - Chinese Language Plus" implemented by Hainan Technician College for training of high-skilled talents. The training courses conducted mainly on tourism services and management and focus on Chinese language and vocational skills. After being trained for nearly two years, within those international students enrolled in 2019 on tourism management, 2 have passed Level 5 of Chinese Proficiency Test (HSK), 17 have passed the HSK Level 4 and 4 have passed the HSK Level 3. Nearly 70% of the students have reached the qualification of application for the Chinese colleges. This will lay a solid foundation for further studying in the colleges in China in the future.

Most of the students have reached to the intermediate level in Chinese, and their professional theoretical study and practical skills have improved significantly. Students and their parents have responded well to the programme, and social reputation of the college has been increased. This is a major innovation for the vocational skills education system. It also fully meets the requirements for construction of "International Education Innovation Island" in Hainan. Furthermore, relying on the geographical advantages of Hainan Province, the college will deeply promote the development of the programme, make integration of vocational education, training and professional skills closely, expand vocational education and the output of Chinese culture, build Sino-foreign friendship and provide support to the overall development strategy of Hainan Province.

(2) With utilization of the qualifications of recruiting international students, introduce teaching system for training Filipino migrant workers on domestic services and assist construction of the national training base on health care

In 2020, a "Training Programme on Health Care Vocational Skills" was implemented jointly by the Ministry of Human Resources and Social Security, the Ministry of Civil Affairs, the Ministry of Finance, the Ministry of Commerce and All-China Women's Federation. At the same year, in the document issued by the Ministry of Human Resources and Social Security on "Supporting Hainan to Deepen the Reform and Opening Up on Human Resources and Social Security", which indicated the necessity to implement vocational skills improvement actions and guide Hainan to carry out the training plan about the vocational skills on health care as well as to support Hainan Technician College to build a national base for training of high-skilled talents on health care. At present, the preliminary proposal for construction of China (Hainan) base for training of high-skilled talents on Health Care has been formulized. When construction of the base is completed and developed, some outstanding teachers and curriculum systems from the domestic service industry in the Philippines will be introduced with the college's qualifications to recruit international students.

Thus, a team, with combination of the domestic trainers and trainers from Philippines, can be setup, which will create an innovative training system in respect of domestic services.

It is expected that the college could be supported by every aspect. We also hope to join the "South-South Cooperation Skills Development Network", which will benefit for strengthening the relationship between the college and the countries in southeast Asia. We look forward to more comprehensive and in-depth support in terms of training of trainers, vocational training, training materials development and vocational qualification certification research so that we can continuously make progress for construction of the national base for training of high-skilled talents on health care and lay a solid foundation for further building a regional highland training of the skilled talents.

(3) Take the advantages of the college to implement education and training on "Chinese language + Skills" and establish the "Training Center on Skills Development for Overseas Chinese of Hainan Province"

The master plan for establishment of Hainan Free Trade Port is issued, which is highly attractive to overseas Chinese as well as the people in southeast Asia and even from all over the world. Hainan Technician College will take advantages of the first "Chinese Language Education and Practice Base in Hainan Province" and demonstrate the role of the national base for training of the high-skilled talents. We are going to strengthen the integration of Chinese language education and skills development, with starting from Thailand, and expand the cooperation on international skills education. We will put on more short-term trainings and programmes on cultural exchanges on the basis of academic curriculum education. In the meantime, we would like to organize various characteristic courses on Chinese language training so that more high-skilled talents, who have not only the professional capacities but also can understand in Chinese, could be trained to meet the urgent needs for the national initiative on "Belt and Road". In addition, we will also seek support from the United Front Work Department of Hainan Province to establish a "Training Center on Skills Development for Overseas Chinese of Hainan Province", which will cover the "Belt and Road" countries in southeast Asia. It will provide a platform to overseas Chinese children for studying and job seeking.

With the persistent promotion of international exchanges, international schooling will be one of the important directions for the future development of Hainan Technician College. Therefore, Hainan Technician College would like to apply to join the "South-South Cooperation Skills Development Network". Through this platform, the college can enhance cooperate with Southeast Asian countries in the field of vocational skills training and create a new brand for studying in Hainan in the area of vocational education for overseas students. It will aim to improve the quality of the training for high-skilled talents and manage vocational colleges with special characteristics under the background of Hainan free trade port.

HANGZHOU TECHNICIAN INSTITUTE

I. Background

Hangzhou Technician Institute was founded in 1952, now under the Hangzhou Municipal Bureau of Transportation, is a national key technical school to cultivate high skilled personnel. The campus covers an area of 356, 700 square meters, building area of 166, 500 square meters, with 5, 979 students in school. There are 281 full-time employees and 243 part-time teachers, 38.68% of them are teachers with senior titles, and 98.2% are teachers with "double qualification", which represents 1 deputy of the National People's Congress, 2 provincial superior technicians, 2 national transportation vocational education professional leaders, 9 professional (discipline) leaders at the provincial level, 7 national technical experts and 10 national transportation technology experts.

With five major groups of automobiles, aircraft, rail, electromechanical and business as its characteristics, the school has set up 26 majors which including automobile application and maintenance, automobile detection and maintenance, automobile sheet metal and coating, application of numerical control technology, CNC machining (numerical control milling direction), automobile marketing, and CNC machining (turning direction), which are provincial demonstration (brand) majors. In 2001, it became one of the first batch of technician institute in Zhejiang Province. In 2006, it was awarded with "civilized unit" by Zhejiang provincial Party committee and government. In 2013, it was rated as national demonstration base for high skilled talents and excellent public training base in Zhejiang Province by the Ministry of human resources and social security and Zhejiang Provincial Department of human resources and social security.

In 2014, it was rated as expansion project unit of Zhejiang provincial public training base for high skilled talents by Zhejiang Provincial Department of human resources and social security and Zhejiang Provincial Department of finance.

In 2015, it became a national model school for the reform and development of secondary vocational education and won the title of outstanding contribution unit in the 43rd World Skills Competition and the May 1st Labor award of Hangzhou.

In 2016, it became the only national pilot unit of Construction Vocational Training Institute in Zhejiang Province, and the leading school of *National skilled personnel training standard* and *Integrated curriculum specification* of automobile sheet metal and coating specialty of Ministry of human resources and social security.

In 2017, it became the construction unit of famous secondary vocational schools in Zhejiang Province, and won the May 1st Labor award of Zhejiang Province and the outstanding contribution unit of the 44th World Skills Competition. In 2018, it won the

outstanding contribution unit of national skilled talents cultivation and the excellent school award of the Sixth National Huang Yanpei Vocational Education Award.

In 2019, it was awarded with the model collective of Hangzhou. In February 2020, he won the first-class collective merit of the provincial government.

The institute project *Exploration and Practice of High Skilled Talents Training Mode of Automobile Repair Specialty Based on "Automobile Hospital"* won the first prize of national teaching achievement.

II. Cooperation

The institute is one of the eight mechanic institutes recommended by the Ministry of human resources and social security to carry out international cooperation. In recent years, the institute has carried out international vocational education cooperation with international vocational colleges and industry associations such as Blakelborn College, Germany Falz, Freiburg and Trier handicraft Association, Germany EBZ education group, Australian international career center(AICC) and jointly developed the automobile maintenance and repair project International professional courses and personnel training standards, exchange visits between teachers and students, joint teaching, and expansion of channels for skilled talents to study abroad. In 2018, the college established the first Sino German teacher training base in Zhejiang Province, and jointly established the first German International Institute of Intelligent Manufacturing in the Yangtze River Delta region with Allen University of Applied Technology in Germany; built the "Hangzhou Technician Institute Test Center of German handicraft Association" with the handicraft industry association of South Turingen in Germany, and introduced the automobile maintenance professional qualification standard of the association.

In particular, the institute cooperates with Nottingham Central College and has set up the IMI (Institute of the Motor Industry) automobile international class, which adopts the IMI curriculum standard for teaching. The courses cover automobile inspection and maintenance foundation, engine maintenance, automobile transmission system maintenance, automobile chassis maintenance, automobile electrical system, automobile comprehensive fault diagnosis and automobile maintenance quality. In order to ensure that the teaching content and teaching methods keep up with the international advanced level and meet the requirements of IMI standard, we have established a small class system, modular, integrated teaching and examination mechanism. Over the years, six teachers have gone to the UK for further study and obtained the IMI assessor qualification certificate, 78 students have obtained the secondary vocational qualification certificate of IMI light vehicle maintenance and repair, and 31 students have gone to the Central College of Nottingham to study and exchange.

Since the 43rd World Skills Competition, the institute has become a Chinese training base for automobile technology, car painting, body repair, aircraft maintenance and other projects. Competitors participated in the 42nd World Skills Competition automobile technology project competition for the first time on behalf of China and won the winning prize; they won the champion of 43rd and 44th World Skills Competition in car painting project. Over the years, the institute has actively carried out international exchange of skills competition through the world championships platform.

It has successively participated in international competitions and technical exchange activities in Britain, Germany, Denmark, Australia, and other countries, and competed and learned with competitors from the United States, France, Britain, Russia, Germany, Denmark, Norway, Brazil, South Korea, Japan, Canada and Thailand. The institute has undertaken the exchange activities of China and UK automotive technology projects in the world skills competition and the tour exchange activities of China and UK World Skills Competition (Hangzhou station), which effectively enhance the professional and technical exchanges between China and the UK and show the elegant demeanor of young and highly skilled talents between China and the UK.

It also specially invites international players to participate in the selection of the world skills competition as card players outside the school to show their superb skills.

WUXI TECHNICIAN COLLEGE

I. Background

The college was founded in 1955 and is affiliated with Wuxi Human Resources and Social Security Bureau. It is mainly composed of majors in mechanical processing, electrical and electronic, electromechanical engineering, information management, cultural creativity and modern services. It is not only a National Demonstration School for Reform and Development of Secondary Vocational Education but also a key technician college in Jiangsu Province, which is developed with coordination on technical education, social training, and skills evaluation. It is successively awarded as the "National Advanced Institution in Vocational Education", "National Demonstration Base for Training of High-skilled Talents", "Outstanding Contribution Honor for National Skilled Talents Cultivation", "National Advanced Team for Moral Education" and "Jiangsu Provincial Civilized Model".

At present, it has the area of 422 acres in the college, and the construction area covers nearly 200,000 square meters. It has more than 113,600 books in its library. There are more than 5,000 students and 324 faculty members. Different kinds of social training and vocational skills evaluation are carried out in the college, which is more than 50,000 person-times every year.

The college is administrated by two-pillar management, which is composed by 38 majors under 5 Departments on Mechanical Engineering, Electrical Engineering, Information Engineering, Cultural Creativity and Modern Services. There are a total of 11 demonstration key majors at provincial level and 26 high-quality curriculums at provincial and municipal level. 8 comprehensive training centers has been established in the campus which are on numerical control technology, electrical engineering and electronics, machinery manufacturing, modern finance, information technology, automatic control, and Internet of Things applications.

There are 136 laboratories for experimental training in the college and 188 training bases outside of the campus. 3 public training bases are also created for high-skilled talents specifically in Jiangsu Province.

The principles are applied consistently in the college as "setting the goal based on enterprises job requirements, taking job capacity training as main purpose, setting social market demand as the standards". The college is managed with adaption of the changes of economic situation, the adjustment of industrial structure, the needs of talents from enterprises and the demand of social market. On one hand, the cooperation between the college and enterprises has been strengthened, on the other hand, the integrated curriculums are implemented internally in the college.

A diversified talent training model has been established with focusing on cultivating students' professional abilities and with characters of "school-enterprise combination", "work-study combination", and "dual certificate combination".

Meanwhile, a curriculum system based on work process, and a long-term mechanism of industry-university-research cooperative education have also been created.

The college is known for its "good environment, complete facilities, strict management, sophisticated skills and good employment". It is called as "ideal learning paradise" by students and their parents, and also praised as "the best skilled talent delivery base" by more than 200 employers in the Province. Over the years, the rate of employers' satisfaction with graduates has been over 98%, and the employment rate of graduates has been above 99%, consistently ranking among the top vocational colleges in the province.

II. Cooperation

1. Cooperation with the German Erfurt Handicrafts Industrial Association

In 2017, a cooperation agreement was signed between the College and German Erfurt Handicrafts Industrial Association, introducing the international vocational qualification certificate programme on "Cutting Machinist". It adopted the scheme of "3+1" for training of high-skilled personnel. The targeted students are those in five-year higher vocational college who majored in "Numerical Control Machining". They are required to study German language and professional curriculums in the first 3 years in China. After obtaining the A2 certificate on German language in China, they will study in Germany in the last year and obtain the German vocational qualification certificate in Germany. In July 2021, the first batch of students involved in this programme will go to Germany to participate in a one-year study on vocational skill and obtain German vocational qualification certificates in Germany.

In 2018, a cooperation agreement was signed between the College and German Erfurt Handicrafts Industrial Association, introducing the international vocational qualification certificate programme on "Mechatronics Master". It adopted the scheme of "4+1" for training of high-skilled personnel. The targeted students are those in five-year higher vocational college who majored in "Mechatronics". They are required to study German language and professional curriculums in the first 4 years in China. After obtaining the A2 certificate on German language in China, they will study in Germany in the last year and obtain the German vocational qualification certificate in Germany.

The above two programmes are implemented by involvement of German curriculums into the college five-year high-tech courses. The German Handicrafts Industrial Association provides training curriculum resources to its partner institutions. Trainers are dispatched from German side twice (at the beginning of the semester and at the end of the semester) per semester, who will provide guidance to Chinese teachers in the college for teaching courses and provide students for demonstration classes. A

behavior-oriented six-step teaching method which based on the work process is implemented in the duration of the training. Usually, the Chinese teachers of the college follow the progress and the training plan made by the German side and put the six-step teaching method for the training courses. The students involved in the programme are required to participate in the mid-term and final exams organized by the German side within the training period. The prerequisite for studying vocational skills in Germany is to pass the assessment.

2. Cooperation with the China branch department of German Oldenburg Handicrafts Industrial Association

The German Handicrafts Industrial Association (HWK) was introduced into China in 2016 and its branch in China was established as the China branch Department of German Oldenburg Handicrafts Industrial Association. In 2017, Sino-German Shuangyuan (Taicang) Education Technology Co., Ltd. was established in Taicang so as to facilitate business implementation in China. In 2016, an agreement was signed between the College and the China branch Department of German Oldenburg Handicrafts Industrial Association on cooperation by the model of "Train The Trainer". The German Handicrafts Industrial Association provides training curriculum resources to its partner institutions, which will be served as the courses for professional academic degree on "Industrial Robot Application and Maintenance" in the college. Trainers are dispatched from German side twice (at the beginning of the semester and at the end of the semester) per semester, who will provide guidance to Chinese teachers in the college for teaching courses and provide students for demonstration classes. A behavior-oriented six-step teaching method which based on the work process is implemented in the duration of the training. Usually, the Chinese teachers of the college follow the progress and the training plan made by the German side and put the six-step teaching method for the training courses. The students involved in the programme are required to participate in the mid-term and final exams organized by the German side within the training period. The students who pass the exam can be issued a training certificate by the German side, who can also apply for the internship programme in Germany.

3. Cooperation with China-Cambodia Friendship Institute of Technology on training

In May 2018, an agreement was signed with China-Cambodia Friendship Institute of Technology on cooperation in terms of skills training. Some training equipment such as computers and car maintenance devices at CNY380,000 Yuan equivalent were donated by the College to the Institute in March 2019. 20 trainers on automobile repairment were trained for 10 days in October 2019 in Sihanoukville Special Economic Zone in Sihanoukville, Cambodia by Mr Li Zhijun, a master trainer with automobile repairment skills.

YUNNAN ADVANCED TECHNICAL SCHOOL OF ELECTRONIC INFORMATION

I. Background

Yunnan Advanced Technical School of Electronic Information was founded in 1979. It is a national key advanced technical school that sponsored by Department of Human Resources and Social Security of Yunnan Province and funded by provincial finance. It is a national training base for high skilled talents, national electronic information high skilled personnel training base and Yunnan Provincial skill training demonstration base. The school is located in Kunming Center, the beautiful spring city. Now we have 26 majors, such as electrical and electronic technology, elevator engineering technology, etc. There are more than 7100 students on campus.

At present, there are 310 full-time and part-time teachers, including 33 with senior titles and 14 technicians and senior technicians. The school adheres to highlight the professional characteristics in running the school, and takes the "four electricity" major of elevator engineering technology, electrical and electronic technology, e-commerce and electronic technology application as the core to construct the professional group. It has 81 professional training rooms and more than 6000 professional training equipment, which can meet the needs of practical training for students from intermediate level to preparatory technician level and social training. The practical teaching ability is in the leading position of similar vocational schools in Yunnan Province.

Yunnan Advanced Technical School of Electronic Information plans to participate in the "South-South cooperation skills development network project" this time, and the advantages and key majors includes electrical and electronic technology, elevator engineering technology and e-commerce. The major of electrical and electronic technology mainly cultivates skilled talents who are engaged in the installation and maintenance of electrical automation equipment and have strong practical skills and engineering application ability; the major of elevator engineering technology mainly cultivates skilled talents who are engaged in the repair, maintenance, installation, commissioning and inspection of various kinds of elevators; the major of e-commerce mainly cultivates skilled talents who are engaged in the operation and management of online stores and cross-border e-commerce work. These three majors are the advantages of our school, with long running time, strong teachers, advanced facilities and equipment, high quality of personnel training, and strong market competitiveness.

II. Cooperation

Our school attaches great importance to learning the experience of Vocational Education in developed countries, and actively carries out various forms of foreign exchanges and cooperation.

First, our school cooperated with the Hanns Seidel Stiftung of Germany in 2003 and has become the teacher training base of German "dual system" in Yunnan. The base has organized three groups of German "dual system" teacher training classes in secondary vocational schools. Hanns Seidel Stiftung provides training equipment and consumables and arranges certified domestic and foreign dual system vocational education experts to teach in the school. More than 100 trainees have participated in the training.

Second, we actively carry out international exchanges and cooperation among students. Since 2016, six students have been arranged to participate in the international exchange activities organized by Shanghai Electronic Information Vocational Education Group to Vancouver Island University in Canada. Through the exchange activities, the international vision of students is broadened, which provides a valuable opportunity to improve the comprehensive quality of our students.

Third, in October 2019, the school undertook the preparatory work for the International Seminar on Vocational Skills Development for Industrial Upgrade in Lancang-Mekong Countries under the framework of "One Belt And One Road", which sponsored by the Ministry of Human Resources and Social Security, undertaken by the Chinese Academy of Labor and Social Security, and co-sponsored by the Department of Human Resources and Social Security of Yunnan Province. Moreover, the school assisted in organizing some foreign representatives and Chinese experts to carry out joint research on the development of vocational skills in Kunming. Through in-depth exchanges with officials and experts of relevant government departments in charge of vocational education and labor force training from Vietnam, Myanmar, Laos, Cambodia and other Lancang-Mekong countries, we have gained a new understanding of the current situation and needs of vocational skills training in Lancang-Mekong countries, cooperation in vocational skills training, and innovation in vocational skills development systems and mechanisms.

Fourth, the school strengthens the study and research of vocational education system in developed countries and arranges relevant professional leaders to visit vocational education in South Korea and the United States. Participating in various kinds of international vocational education academic exchanges for many times has played a positive role in promoting the innovation of talent training mode and improving the level of skilled personnel training.

YUNNAN TECHNICIAN COLLEGE

I. Background

Yunnan Technician College(Yunnan Industry & Trade Vocational College) is the first technician college in Yunnan Province sponsored by the Provincial People's Government and directly managed by the Provincial Department of Human Resources and Social Security, which has 16 teaching units, including 8 teaching departments, 2 centers, 3 branches, 3 school running points, and 31 majors at 3 school running levels, including middle and senior engineering and preparatory technician by adhering to the motto of "Virtue and Technology Goes around All Over the World". Anning main campus of the college covers an area of 1158 mu. Presently, the number of students on campus has reached more than 16700, of which more than 80% are senior workers or above. A number of advanced teaching facilities and equipment have been deployed.

The college is a national high skilled talents training demonstration base, a national employee vocational skills training base, a teacher training demonstration base of national technical colleges, an international research center of mobile robot project of World Skills Competition, the China mobile robot training base of the 45th World Skills Competition, the international research center of mobile robot project of World Skills Competition, the China training base of information network wiring in the 45th World Skills Competition, and nearly 30 teaching and training centers have been utilized, such as the designated institutions for entrepreneurship training in Yunnan Province, the 55th Vocational Skills Appraisal Institute of Yunnan Province, the Putonghua Proficiency Test Station of Yunnan Human Resources and Social Security of Yunnan Province, China Welding Association (Tangshan) Robot welding training base Yunnan training station, Panasonic welding machine, the Robot (Kunming) Technology Application Center (FATC), the Yunnan Neusoft Entrepreneurship Training Base, etc.

At present, the majors mainly cover the fields of chemical industry, biology, machinery, architecture, national crafts, information technology, economic management, aviation services, aircraft maintenance, cooking, etc.

II. Introduction of Advantage and Key Majors

1. Electrical equipment installation and maintenance

Train students to master the knowledge and technical skills of electrical automation equipment installation, programming, commissioning and maintenance, and to be high-quality and skilled talents in the field of electrical engineering and mechanical and electrical equipment maintenance. The ratio of full-time teachers to students is 24:1, of which the teachers with senior professional titles are more than 30, the teachers with graduate degrees are more than 30, and the double professionally titled teachers account for more than 60. The proportion of part-time teachers from the

front-line of industry and enterprise accounts for more than 25% of full-time teachers. Each professional compulsory course and professional core course is deployed with more than one full-time teacher with the professional and technical position of vice senior high or above, and the teachers of professional core course have professional related enterprise work experience or practical experience.

2. E-commerce

The college's E-commerce is a major supported by the central government. It has an excellent teaching team with rich teaching experience, solid theoretical foundation, and strong scientific research ability. There are 8 in-service teachers on the payroll with an average age of 37.

There are 1 senior teacher, 2 associate senior teachers, 1 intermediate-title teacher and 4 junior-title teachers; 2 postgraduates and 7 undergraduates; 7 double professionally-titled teachers. Cao Wujun, the vice president and senior teacher of the college, is a national E-commerce technician, a national enterprise trainer technician, and one of the five members of the national E-commerce Vocational Education and Teaching Steering Committee.

After years of construction, the college has a number of advanced teaching facilities and equipment, including 2 E-commerce training rooms, 1 E-commerce sand table training room, 1 E-commerce commodity shooting training room and 1 customer voice training room.

III. Cooperation

1. Exchanges and cooperation with Southeast Asian countries

In recent years, Yunnan Technician College has carried out a series of international vocational exchanges and training for South and Southeast Asian countries, and established extensive contacts with a large number of vocational and technical schools in Myanmar, Cambodia and Vietnam and relevant national authorities.

- **Myanmar, Cambodia, Vietnam vocational technical school principals exchange seminars.**

From 2017 to 2019, Yunnan Technician College applied to the provincial government through the Provincial Department of Commerce and implemented and implemented the Myanmar vocational technical school principals exchange seminars, Myanmar vocational school modernization, teaching technology exchange seminar, Cambodian vocational technical school principal exchange seminar, and Vietnam vocational technical school principal exchange seminar.

- **Planned to fulfill training for operators of China Myanmar cross-border E-commerce platforms**

In September 2018, at the invitation of the Ministry of Education and the Ministry of Border Affairs of Myanmar, the vocational education exchange delegation of Yunnan Technician College headed by Shi Likang, deputy director-general of the Department of Human Resources and Social Security of Yunnan Province, went to Mandalay, Naypyidaw and Yangon of Myanmar to exchange with the Ministry of Education, the Ministry of Border Affairs and their vocational and technical schools, and reached a consensus on the next step of Sino-Myanmar vocational and technical exchanges.

During that period, at the invitation of Myanmar iHome Enterprise Group, Yunnan Technician College and iHome group reached an agreement on the training of operators of China Myanmar cross-border E-commerce platform and signed a cooperation agreement. Next, they will jointly carry out the training of operators of China Myanmar cross-border E-commerce platform and the training of vocational and technical workers in Myanmar.

- **Plan to carry out the foreign aid project named 'Aid to Mandalay, Myanmar Technical Promotion and Training Center Skills Upgrading Project'.**

In December 2020, Yunnan Technician College (Yunnan Industry & Trade Vocational College) applied to the Yunnan Provincial People's Government for the foreign aid project named 'Aid to Mandalay, Myanmar Technical Promotion and Training Center Skills Upgrading Project' via Yunnan Provincial Department of Commerce. The project awaits approval.

2. Cooperation with German Vocational Education Alliance in training high skilled talents

In 2020, the college and the German Vocational Education Alliance will carry out cooperation agreement negotiation, plan to carry out cooperation in running schools, develop international skill level certificates and skill level evaluation standards, and actively explore the cultivation and training of China's international skilled talents and the construction of international skill level certificate system.