

Internal combustion engine (ICE) Components and Manufacturing

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Process Engineering	Programmable Logic Controller (PLC) Technician		A worker with the ability to correctly and appropriately select PLC equipment, diagnose problems, and make decisions regarding work processes. Capable of designing advanced programs, providing guidance to supervised staff, writing knowledge manuals, and applying skills to new technologies.	A worker with the knowledge and capability to design programs, assemble, install, maintain, and solve high-level problems, including writing programs and independently checking for errors.	A worker with the knowledge and ability to assemble, install, maintain, and perform initial inspections related to PLC, as well as basic programming skills under supervision.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Computer-Aided Design (CAD) Mechanical Draftsman		A worker with the ability to create exploded views and 3D illustrations from actual workpieces or design drawings using CAD software.	A worker with the capability to create exploded views and illustrations from actual workpieces or design drawings using CAD software.	A worker with the ability to create 2D drawings from sketches using CAD software.		
	Pneumatic Systems Technician	A worker with knowledge, skills, and abilities in calculating and analyzing pneumatic system circuits, capable of calculating force and piston rod speed to select equipment sizes and create drawings. Additionally, able to design, estimate costs for constructing pneumatic machinery, and prepare operation and maintenance manuals.	A worker with knowledge, skills, and abilities in conceptual design of pneumatic systems, including the ability to analyze, troubleshoot, plan, and sequence assembly and pneumatic circuit layouts.	A worker with knowledge, skills, and abilities in assembling and inspecting pneumatic systems accurately, and capable of preparing assembly and installation reports.	A worker with knowledge, skills, and abilities to perform tasks according to safety regulations and requirements, proficient in using basic tools and maintaining equipment correctly, as well as preparing maintenance and pneumatic circuit system reports.		
	Electrical Maintenance Technician for Automotive Parts Manufacturing	A worker with knowledge, skills, and abilities in planning maintenance, supervising, verifying, and reporting on electrical equipment maintenance for automotive parts production. Capable of teaching maintenance skills related to electrical equipment.	A worker with knowledge, skills, and abilities in maintaining, inspecting, and replacing components of PLC (Programmable Logic Controller) systems and touch-screen systems used in machinery for automotive parts production.	A worker with knowledge, skills, and abilities in maintaining and replacing electrical equipment in automotive parts production, as well as verifying the accuracy of electrical component replacement processes.	A worker with knowledge, skills, and abilities in maintaining and inspecting electrical equipment in automotive parts production and other electrical devices, including preparing tools, measuring instruments, and equipment for maintenance according to safety regulations and requirements.		
	Hydraulic Systems Technician	A worker with knowledge, skills, and abilities to apply problem-solving techniques to complex hydraulic systems. Capable of using specialized software to analyze and resolve hydraulic system malfunctions, design machinery safety features, and make informed decisions to address both anticipated and sudden issues.	A worker with expertise in calculating hydraulic values, designing systems, defining operational workflows, planning maintenance activities, estimating costs, and inspecting machinery performance to ensure efficiency and compliance with established standards.	A worker with the ability to install hydraulic systems, interpret symbols according to DIN ISO 1219 standards, and establish safe and proper system connections. Capable of conducting safe post-installation performance tests and preparing installation and assembly reports.	A worker with fundamental knowledge and skills in hydraulic systems, capable of diagnosing faults, replacing components, reassembling parts, using and maintaining tools correctly, performing safe operational tests, and documenting maintenance activities.		
	Power Transmission Technician	A worker with the knowledge, skills, and ability to analyze and calculate using advanced technology to design complex power transmission systems. Capable of specifying various properties of the transmission system, evaluating performance, providing guidance, making problem-solving decisions, estimating production and repair costs, and preparing user and maintenance manuals for power transmission systems.	A worker with the knowledge, skills, and ability to design basic power transmission systems, appropriately select transmission types based on manuals or catalogs, perform design calculations, provide guidance, and make preliminary problem-solving decisions. Capable of planning and outlining work procedures, preparing records, and reporting the results of power transmission system inspections for presentation.	A worker with the knowledge, skills, and ability to read blueprints, assemble, and install power transmission equipment. Capable of identifying defects in components and testing the power transmission system after installation to ensure compliance with assembly and installation specifications.	A worker with the knowledge, skills, and ability to perform maintenance and initial inspection of power transmission systems according to user and maintenance manuals. Capable of performing lubricant changes as scheduled and proficient in using basic hand tools, machinery, and measurement tools for power transmission system maintenance under the guidance of a supervisor.		

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Forging	Hot metal forging Technician for Automotive Parts manufacturing	A worker with knowledge, skills, and abilities in hot metal forging who can analyze process failures and develop preventive measures to avoid recurrence. Capable of creating standard operating procedure manuals and efficiently supervising operations.	A worker with the ability to analyze and resolve issues related to machinery and all forging equipment, including problems with raw materials, molds during production, and machinery malfunctions. Also capable of inspecting quality aspects that are not visible to the naked eye.	A worker with the skills to adjust machinery and molds according to standards, control and inspect preliminary production and products, resolve basic issues that arise, and ensure the safety of machinery and equipment.	A worker with the skills in hot metal forging who can prepare essential tools and equipment before production, perform forging according to manuals, conduct preliminary quality checks, and inspect machinery and equipment readiness according to occupational health, safety, and environmental regulations.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Metal Casting Technician		A worker with high-level skills in analyzing and diagnosing problems, making decisions, and thoroughly understanding the processes involved in metal casting and melting. Proficient in using manuals and technical documents, applying knowledge and skills to new technologies, especially in decision-making and selecting appropriate methods. Capable of providing guidance to lower-level craftsmen.	A worker with intermediate-level skills in metal casting and melting, proficient in using tools and equipment, and possessing relevant work experience. Capable of providing guidance to lower-level craftsmen.	A worker with fundamental knowledge, basic skills, and capabilities in metal casting, who requires guidance or supervisory support in making key decisions during operational tasks.		
Casting	Sand Casting Technician		A worker with high-level skills, knowledge, and technical ability in sand casting mold making, capable of analyzing and diagnosing issues in sand molds, cast workpieces, and metal pouring systems, with expertise in metallurgy and heat treatment for producing ferrous and non-ferrous components.	A worker with intermediate-level skills, knowledge, and ability in preparing casting sand, sand molds, core sands, sand testing, and metal pouring systems. Capable of producing quality components, both in terms of dimensions and the integrity of the metal. Skilled in analyzing and correcting defects, and capable of providing advice and guidance to lower-level craftsmen.	A worker with foundational knowledge, skills, and capabilities in sand preparation and mixing, core sand handling, sand mold forming, metal flow system design, and basic defect identification in cast products, who requires support, guidance, and problem-solving assistance from more experienced personnel when performing complex or intricate tasks.		
	Permanent Mold Casting Technician		A worker with high-level skills, knowledge, and ability in making and designing permanent molds, proficient in production processes, metallurgy, and heat treatment of ferrous and non-ferrous metal components, capable of analyzing and diagnosing issues, and providing guidance to lower-level craftsmen.	A worker with intermediate-level skills, knowledge, and ability in making permanent molds, core boxes, and metal pouring systems, capable of analyzing and correcting defects, and providing advice and guidance to lower-level craftsmen.	A worker with basic knowledge and abilities in preparing permanent molds, selecting mold types, and creating permanent molds for metal casting systems. They possess fundamental knowledge in calculations and reading simple blueprints. For more complex tasks that involve intricate mold defects, it is necessary to have a more experienced worker who can provide guidance, make decisions, and solve problems.		
	Special Casting Technician		A worker with high-level skills, knowledge, and ability in making special molds, proficient in production processes, metallurgy, and heat treatment of ferrous and non-ferrous metal components, capable of analyzing and diagnosing issues, and providing guidance to lower-level craftsmen.	A worker with intermediate-level skills, knowledge, and ability in making special molds and metal pouring systems, capable of analyzing and correcting defects, and providing advice and guidance to lower-level craftsmen.	A worker with basic knowledge and abilities in mixing and preparing special mold types, forming specialized molds for metal casting systems. They possess fundamental knowledge in calculations and reading simple blueprints. For more complex tasks involving intricate mold defects, it is necessary to have a more experienced worker who can provide guidance, make decisions, and solve problems.		

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Casting (cont.)	Lost Wax Casting Technician		A worker with high-level skills, knowledge, and ability in making and designing wax injection molds, mold materials, production processes, metallurgy, and heat treatment for ferrous and non-ferrous metal components. Capable of analyzing and diagnosing issues and providing guidance to lower-level craftsmen.	A worker with intermediate-level skills, knowledge, and ability in preparing mold materials for wax casting, making wax injection molds, maintaining wax casting systems, metal pouring systems, and recycling wax. Capable of analyzing and correcting defects and providing advice and guidance to lower-level craftsmen.	A worker with basic knowledge and abilities in preparing wax patterns for casting and understanding metal flow systems. They possess foundational knowledge of wax pattern materials, blueprint reading, and identifying casting defects. For more complex operations, guidance, decision-making, and problem-solving must be provided by a more experienced worker.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality.
	Electric Arc Furnace Operator	A worker with the ability to analyze and solve problems in the melting process, coordinate with other departments, prepare production reports, follow plans, supervise, and train staff in the electric arc furnace steel melting process.	A worker with skills and experience in coordinating production shifts, adding raw materials to the electric arc furnace, operating machinery, and recording production data.	A worker with experience in maintaining the electric arc furnace and refractory materials, capable of analyzing the molten steel temperature, chemical composition of the steel, preparing electrodes, and pouring molten steel from the electric arc furnace into the ladle.	A worker with the ability to measure temperatures, collect molten steel samples, clean the carbon and oxygen spray nozzles, and perform work according to safety standards and work regulations.	while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	
	Ladle Furnace Operator	A worker with the ability to analyze and solve production issues, follow production plans, prepare production reports, coordinate with other departments, and train subordinates in the steel refining process.	A worker with the ability to coordinate between production shifts, control the chemical composition and the charging machine in the steel refining process, and record production data.	A worker with experience in preparing fluxes and alloys for the steel refining process, capable of preparing graphite electrodes and delivering molten steel to the foundry.	A worker capable of following safety standards and work regulations, as well as measuring temperatures and collecting molten steel samples.		
	Iron Casting Operator	A worker with the knowledge, ability, and experience to analyze and solve production issues in the casting process, coordinate with other departments, follow production plans, prepare production reports, and supervise and train subordinates.	A worker with the knowledge, ability, and experience in coordinating production, capable of controlling machinery in the continuous steel casting process, and recording production data.	A worker with the knowledge, ability, and experience to control casting speed, inspect and prepare the tundish, separate slag from molten steel, and remove slag from the mold.	A worker with the knowledge and ability to adhere to casting safety standards, measure molten steel temperature in the tundish, install and remove molds, and operate the slide gate for molten steel transfer.		
	Iron Tempering Operator	A worker with the knowledge, skills, abilities, and experience to analyze and solve problems in the steel heating process, coordinate with other departments, follow production plans, prepare heating reports, and supervise and train subordinates.	A worker with the knowledge, skills, abilities, and experience to coordinate production shifts, control the heating process in continuous production, manage furnace parameters, regulate the combustion system, adjust fuel-air combustion ratios for complete combustion, control heating patterns to specified values, solve production issues, and record production data.	A worker with the knowledge, skills, abilities, and experience to control furnace temperatures, manage the cooling water system, handle raw materials entering and exiting the furnace, control cooling processes within the furnace, and record furnace parameters.	A worker with the knowledge, skills, and ability to comply with safety standards, repair or replace refractory materials, fuel nozzles, and fuel filters in the steel heating furnace.		

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Machining	Lathe Technician for Automotive Parts	A worker who can produce parts using the off-center turning and fitting processes, and is capable of teaching and transferring knowledge and skills related to turning, while also offering suggestions and guidance for producing new model parts.	A worker who can produce parts using the internal threading process, including boring, grooving, and internal threading, and is able to analyze, improve, and resolve production issues, as well as plan work and control the production process to ensure high-quality parts are delivered on time.	A worker who can produce parts using external threading, turning, forming, grooving, and parting processes, and can resolve issues related to parts, as well as maintain the lathe machines, tools, and equipment in good working condition for accurate and effective operation.	A worker who can operate a lathe to process materials according to specified designs, prepare production plans based on work orders, and produce parts using facing, skinning, drilling, centering, and cutting processes as per the work order. This worker can also sharpen cutting tools, inspect finished parts, clean lathes, tools, and equipment for the next use, and follow the turning industry regulations for vehicle parts manufacturing.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Automated Lathe Technician for Automotive Parts	A worker who can plan work and control production, and is capable of teaching and transferring knowledge and skills related to automatic lathe operations, while also providing information and guidance to engineers for producing new model parts.	A worker who can prepare for production of other parts (Job Set up) to ensure the ability to produce different parts, and is able to improve and resolve production issues.	A worker who can adjust and set cutting tools between production runs, maintain automatic lathes and equipment, and resolve issues with parts produced.	A worker who has the ability to prepare for production, manufacture parts, clean automatic lathes, tools, and equipment, and follow the regulations and procedures for automatic lathe operations in the vehicle parts manufacturing industry.		
	EDM Machine Technician	A worker with the knowledge and ability to plan and manage the use of personnel, tools, machinery, materials, and equipment to ensure the production of parts according to the plan, while also transferring knowledge, skills, and evaluating the development of personnel to enhance work efficiency.	A worker with the knowledge and ability to create advanced EDM machine control programs and load EDM machine data (Electrical Machine Condition) from data sheets into the machine, including the ability to verify the program. They can plan inspection points and methods for the produced parts, analyze and identify the causes of problems in the production process to resolve issues, and establish preventive measures.	A worker with the knowledge and ability to plan the use of materials and electrode production, including determining the appropriate number of electrodes. They can define conditions and adjust parameters to optimize EDM machine performance, and also establish and review the maintenance of EDM machines and measuring instruments.	A worker with the knowledge and understanding of the EDM machine's operating principles, adhering to safety regulations while preparing work, controlling operations, and inspecting for abnormalities during work. They can check the dimensions and surface quality of EDM parts, as well as maintain and ensure EDM machines and measuring instruments are in good working condition.		
	Wire Cut EDM Technician	A worker with the knowledge and ability to plan and manage the use of personnel, tools, machinery, materials, and equipment to ensure the production of parts according to the plan, while also transferring knowledge, skills, and evaluating personnel development to enhance work efficiency.	A worker with the knowledge and ability to create NC programs for cutting workpieces using computer-aided manufacturing (CAM) systems. They can plan and establish inspection lists and methods for produced parts, analyze and identify the causes of issues in the production process to resolve them, and formulate preventive measures.	A worker with the knowledge and ability to create NC programs for cutting parts using the Wire-Cut EDM machine control system. They can determine production steps, wire settings, and cutting conditions, as well as establish and review maintenance procedures for Wire-Cut EDM machines and measuring tools, while collecting and documenting production issues.	A worker with the knowledge and understanding of the operating principles of Wire-Cut EDM machines, adhering to safety regulations during operations. They can clamp and level workpieces accurately, set up centering and wire alignment properly, control operations, and check for abnormalities during the process. They can also verify the dimensions of produced parts according to specifications and maintain Wire-Cut EDM machines and measuring tools to ensure readiness for use.		
	Machine Inspection Technician		A worker with high-level analytical skills who can make decisions to solve problems, provide advice to others, and apply their knowledge and abilities with modern technology.	A worker with the knowledge and ability to use tools and machinery efficiently.			

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Machining (cont.)	CNC Lathe Operator		A worker with high-level skills capable of analyzing and diagnosing problems, making informed decisions, and thoroughly understanding work processes. Able to effectively guide and mentor subordinates in craftsmanship. Competent in using manuals to apply knowledge and skills to new technologies, especially in making decisions and selecting appropriate methods.	A worker with intermediate skills, possessing the knowledge, ability, and experience to efficiently use tools and equipment. Capable of providing guidance to subordinates and maintaining high-quality work standards.	A worker with basic skills and foundational knowledge in performing tasks, requiring guidance or support from supervisors in making important decisions when necessary.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Wire Cut Machine Operator		A worker with advanced skills, capable of analyzing and diagnosing problems, making sound decisions, and thoroughly understanding work processes. Skilled in mentoring subordinates in craftsmanship, utilizing manuals to integrate knowledge and skills with new technologies, especially in decision-making and selecting appropriate methods.	A worker with intermediate skills, possessing knowledge, ability, and practical experience in efficiently using tools and equipment. Capable of providing guidance to subordinates while maintaining high-quality work standards.	A worker with basic skills and foundational knowledge in performing tasks, requiring guidance or support from supervisors when making critical decisions as needed.		
Plastic and Metal Injection	Plastic Mold Maker		A technician with advanced knowledge and skills, capable of diagnosing, making decisions, and solving problems effectively. This technician can also provide support and apply their expertise to modern technologies.	A technician with knowledge and ability in using tools, machinery, and producing high-quality plastic injection molds.	A technician with basic knowledge, skills, and decision-making ability, who works under supervision and inspection.		
	Plastic Injection Mold Maintenance Technician		A worker with advanced-level skills who can analyze, diagnose, and make informed decisions with a deep understanding of work processes. This worker can effectively advise Operators, utilize manuals, and apply knowledge and skills to technology in order to make well-founded decisions.	A worker with intermediate-level skills, knowledge, and the ability to use tools and equipment effectively, along with work experience that enables them to perform tasks under the guidance of a supervisor.	A worker with basic skills and capabilities to perform tasks under the supervision and decision-making of a supervisor for important matters.		
	Metal Injection Mold Maker		A worker with advanced-level skills who can analyze and diagnose problems, make sound decisions, and has a thorough understanding of work processes. This worker can effectively mentor subordinates, utilize manuals, and apply knowledge and skills to new technologies—especially in decision-making and selecting appropriate methods for the task.	A worker with intermediate-level skills, knowledge, and the ability to use tools and equipment proficiently. This worker has practical experience, can provide guidance to subordinates, and consistently delivers high-quality work.	A worker with basic skills and knowledge required to perform tasks under the guidance of a supervisor, who provides advice or assists in making critical decisions when necessary.		
	Plastic Injection Mold Designer	A worker with knowledge, skills, and the ability to define mold specifications and plan mold designs according to customer requirements while aligning with production plans. This worker can manage and resolve design-related issues, establish a database system for efficient information retrieval, and effectively transfer knowledge and assess personnel competencies to plan for skill development in a systematic and efficient manner.	A worker with knowledge, skills, and the ability to design complex plastic injection molds equipped with assisted systems such as injection systems, cooling systems, or ejection systems—examples include hot runner systems and unscrewing motor mechanisms.	A worker with knowledge, skills, and the ability to design plastic injection molds with non-assisted injection systems, standard spiral-drilled cooling systems commonly used in mold bases, and part ejection systems using ejector pins or stripper plates. This design work is intended for general-tolerance applications and does not include specialized molds such as thin-wall or lens-grade molds.	A worker with knowledge, skills, and the ability to create mold component drawings from both 2D and 3D mold designs using CAD software. This worker can accurately include all necessary details and manufacturing specifications in the drawings in accordance with technical drafting standards.		

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Plastic and Metal Injection (cont.)	Plastic Injection Mold Assembly Technician	A worker with knowledge, skills, and the ability to plan and manage mold fitting and assembly operations. This worker can coordinate and plan tasks based on input from the production and design departments, develop assembly steps and techniques, as well as control and troubleshoot issues related to mold fitting and assembly processes.	A worker with knowledge, skills, and the ability to prepare tools, equipment, and components for complex plastic injection molds. This worker can assemble complex injection molds that include assisted systems such as hot runners, advanced cooling systems, or specialized ejection mechanisms like unscrewing motors. The worker is also capable of inspecting the performance of complex molds, troubleshooting issues arising from mold assembly, and participating in mold trials and problem-solving during the mold testing process.	A worker with knowledge, skills, and the ability to prepare tools, equipment, and mold components, as well as to assemble plastic injection molds that use non-assisted injection systems and standard cooling systems with spiral-drilled channels commonly found in mold bases. This worker is also capable of handling ejection systems using ejector pins or stripper plates for general-tolerance applications, excluding thin-wall or lens-grade molds. Additionally, the worker can inspect mold operation and troubleshoot issues arising from the mold assembly process.	A worker with knowledge, skills, and the ability to prepare tools, basic machine tools, and equipment for mold component adjustment. This worker can use hand tools and basic machine tools to modify mold parts, measure workpiece dimensions according to technical drawings, and perform maintenance on tools and basic machine tools used in mold fitting and assembly.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Plastic Injection Machine Technician	A worker with knowledge, understanding, and experience in plastic injection molding processes, with strong operational expertise in both general injection systems and electrical systems. This worker can analyze and diagnose issues, identify the root causes of defects related to injection molding machines, molds, and raw materials, and compile technical data to provide recommendations for plastic mold design. The worker can also use diagnostic results to develop preventive measures to avoid recurring problems. Additionally, this worker is capable of effectively transferring advanced plastic injection molding knowledge and skills, creating technical manuals, and conducting training for Injection Molding Technicians at levels 1, 2, and 3.	A worker with knowledge, skills, and understanding in the operational aspects of plastic injection molding machines. This worker is proficient in analyzing and resolving on-site production issues effectively, including defects caused by injection conditions, operational problems with injection machines, raw material issues, and mold-related problems. The worker can perform accurate and prompt troubleshooting to ensure efficient production.	A worker with the knowledge and ability in final preparations before plastic injection mold production, including setting up molds, equipment, tools, raw materials, standard workpiece data, and other production-related information. This worker can install and remove molds, control the injection machine, set the injection parameters, monitor the injection process during production, and adjust the injection conditions until the completion of the plastic injection cycle. Additionally, this worker is capable of performing maintenance on both the injection machines and the injection molds.	A worker with the ability to prepare tasks prior to plastic injection mold production, including setting up equipment, tools, and raw materials, as well as assisting with mold clamping and mold removal. This worker can perform maintenance on equipment used in plastic injection molding and adhere to plastic injection work requirements in accordance with occupational health and safety standards and environmental regulations.		
	Mold Polishing Technician		A worker with basic knowledge and skills in polishing dies to achieve a mirror surface finish (with surface roughness ranging from 0.16–0.08 µm Ra). This worker can prepare tools and equipment for polishing, perform polishing using diamond paste, plan and manage the use of personnel, tools, materials, and polishing equipment, and control the quality of the polished surface to meet planned requirements. The worker is also capable of analyzing and identifying root causes of issues in the polishing process, implementing corrective actions, and developing preventive measures.	A worker with basic knowledge and skills in polishing dies to achieve a fine surface finish (with surface roughness ranging from 0.50–0.30 µm Ra). This worker can prepare tools and equipment for surface polishing, carry out the polishing process, and apply motor-driven tools such as electric files, rotary tools with torque heads, and high-frequency electric tools to assist in achieving the desired finish.	A worker with basic knowledge and skills in polishing dies to achieve a smooth surface finish (with surface roughness ranging from 2.15–0.90 µm Ra), in compliance with workplace safety regulations. This worker can prepare polishing tools and equipment, perform polishing to remove marks from machining processes, visually inspect the surface finish using reference plates, and maintain polishing tools and equipment to ensure they are in proper working condition.		

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Pressing	Stamping Die Technician	A worker with knowledge, skills, and the ability to analyze production failures and develop corrective solutions. This worker possesses skills in on-the-job training, writing operational manuals, supervising Operators, and enhancing work processes for improved efficiency.	A worker with knowledge, skills, and the ability to analyze problems and troubleshoot machines and equipment throughout the production process. This worker is also capable of inspecting product quality for defects that are not visible to the naked eye.	A worker with knowledge, skills, and the ability to set up machines and dies according to standards. This worker can control, inspect, and troubleshoot issues throughout the production process and with the machinery.	A worker with knowledge, skills, and the ability to set up machines and dies in accordance with standards. This worker can control and inspect product quality before, during, and after production, and is capable of maintaining workplace safety.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Hot Metal Forging Technician in Automotive Parts Manufacturing	A worker with knowledge, skills, and the ability to analyze process failures and develop preventive measures to avoid recurring issues. This worker can also write standard operating procedures (SOPs), supervise Operators under their command, improve operational efficiency, and provide on-the-job training.	A worker with knowledge, skills, and the ability to analyze and resolve issues related to machines and equipment affecting forged parts, as well as problems concerning raw materials and dies during production. This worker can also perform basic troubleshooting on machines and equipment. After production, the worker is capable of inspecting product quality for defects not visible to the naked eye (such as cracks, folds, or die wear marks).	A worker with knowledge, skills, and the ability to set up machines and dies in accordance with standard operating procedures. This worker is responsible for controlling and inspecting initial production conditions in terms of output and quality. After production, the worker can inspect product quality using measuring instruments, troubleshoot issues arising during initial production stages, and check the machine safety systems.	A worker with knowledge, skills, and the ability to prepare basic tools and equipment prior to production. This worker can perform hot metal forging according to standard procedures, conduct visual quality inspections of finished products for basic physical defects (such as incomplete forming, surface irregularities, or impact marks), and carry out daily inspections of machines and equipment. The worker is also capable of following occupational health and safety practices and complying with environmental regulations.		
	Forging Equipment Setup Technician	A worker with knowledge, skills, and the ability to analyze production issues related to roll set preparation. This worker can coordinate with other departments to ensure operations are carried out according to targets, prepare production reports, execute tasks in alignment with the production plan, and is capable of both supervising and providing on-the-job training.	A worker with knowledge, skills, and the ability to coordinate with production departments, prepare roll and guide spare parts, and inspect the roll set preparation process accurately. This worker is also capable of recording operational data.	A worker with knowledge, skills, and the ability to prepare roll sets in accordance with the specified plan. This worker can perform chock bearing replacements, conduct maintenance on guides and related equipment, inspect the condition of rolls and rolling stand components, and adjust roll grooves and guides in compliance with technical specifications.	A worker with knowledge, skills, and the ability to carry out assigned tasks, measure dimensions, and assess the condition of rolls and roll grooves. This worker can identify and use measuring instruments, perform disassembly and assembly of roll set components, and replace roll cooling water pipes. The worker is also capable of adhering to both production process requirements and workplace safety standards.		
	Hot Forging Mold Setup Technician	A person with the knowledge, skills, and ability to analyze problems in roller assembly and disassembly tasks, effectively coordinate with other departments to achieve operational goals, prepare performance reports, manage the entire production process according to production plans, and supervise as well as provide training to subordinates.	A person with the knowledge, skills, and ability to grind rollers, inspect roller defects, and effectively resolve issues arising in roller preparation tasks, ensuring successful achievement of goals. This individual can accurately document and report daily operational activities.	A person with the knowledge, skills, and ability to disassemble and assemble rollers on rolling mills, correctly select rollers and equipment appropriate for production dimensions, perform repairs, replacements, maintenance, and installations of rolling equipment accurately, and effectively coordinate tasks with other departments.	A person with the knowledge, skills, and ability to perform assigned tasks, carry out basic roller inspections, move and install rollers onto grinding machines, and comply with organizational standards for both production processes and workplace safety.		
	Hot Forging Process Operator	A person with the knowledge, skills, and ability to analyze and resolve production issues in rolling processes, coordinate effectively with other departments, prepare production reports, manage and supervise entire production processes, and provide training to subordinates, ensuring successful achievement of operational goals.	A person with the knowledge, skills, and ability to adjust machinery settings appropriately for steel rolling processes, effectively coordinate and follow up tasks with other Operators to resolve production issues and achieve targeted goals, and accurately record production data.	A person with the knowledge, skills, and ability to prepare machinery for readiness in production lines, possessing fundamental skills in adjusting machine settings for rolling processes suitable to specific product types, and capable of inspecting the physical characteristics of steel to ensure accurate production aligned with production plans.	A person with the knowledge, skills, and ability to perform assigned tasks according to production plans, capable of cleaning rolling equipment, effectively using and distinguishing various types of measuring instruments and basic tools required in steel rolling processes, and accurately recording fundamental data.		

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Pressing (cont.)	Metal Stamping Die Designer	A person with the knowledge, skills, and ability to specify the details of metal stamping dies and plan their design according to customer requirements and production schedules. This individual also oversees and resolves issues during the design process and establishes a systematic database for storing metal stamping die design information.	A person with the knowledge, skills, and ability to design and draft metal stamping dies in both 2D and 3D using CAD software. This individual is experienced in designing complex stamping dies, such as progressive dies incorporating draw-form processes, and is capable of resolving design issues through analysis of results obtained after die trials.	A person with the knowledge, skills, and ability to draft metal stamping dies in both 2D and 3D using CAD software. This includes designing various types of dies such as single dies, compound dies, and progressive dies specifically tailored for cutting and piercing operations.	A person with the knowledge, skills, and ability to draft metal stamping die components in both 2D and 3D using CAD software, capable of accurately including all necessary production details and specifications in the design drawings according to established drafting standards.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.		
	Sheet Metal Forming Technician	A person with the knowledge, skills, and ability to analyze, calculate, and design sheet metal cutting and forming tasks. This individual can also estimate the cost of sheet metal cutting and forming, as well as define the steps involved in these processes.	A person with the knowledge, skills, and ability to design and draft flat patterns, create cutting plans for materials, and perform cutting, bending, rolling, and forming of sheet metal. This individual is also proficient in production planning and accurately determining the steps required for cutting and forming sheet metal.	A person with the knowledge, skills, and ability to read blueprints, prepare production machinery and equipment, and set up machines and tools. This individual is also capable of overseeing production and performing basic maintenance and repairs on machinery and tools.	A person with the knowledge, skills, and ability to follow safety regulations and work requirements, operate machinery and tools according to manuals, produce workpieces based on specifications, perform quality checks on the finished products, and maintain machinery and equipment.			
	Cold Pressing Technician	A person skilled in managing and controlling production, capable of analyzing problems, identifying root causes, and refining production processes. This individual is proficient in planning and implementing quality improvement methods to reduce costs, and is able to guide and train workers to perform tasks accurately and safely.	A person capable of reviewing production plans and aligning production resources accordingly. This individual manages work distribution, monitors production outputs, assesses the severity of production issues, and develops corrective measures to establish operational standards that are both accurate and safe.	A person skilled in inspecting the operation of metal forming presses, setting up molds for production, and performing trial runs to ensure sample parts meet specified standards before actual production. This individual is also capable of checking critical mold points for abnormalities, preparing them for future use, removing molds from the press, and safely transporting them for storage.	A person capable of preparing materials, tools, equipment, and machinery for producing stamped components in compliance with work order specifications. This individual is proficient in production, in-process inspections, recording production results, and managing production steps to ensure parts meet quality standards, match the specified quantity, and are completed on schedule as stated in the work order.			
	Body Spot Welding Technician		A worker with knowledge, skills, capability, and experience in problem analysis for prevention, workforce management, and reviewing written operating procedures.	A worker with knowledge, skills, and capability in inspecting and analyzing quality issues, as well as resolving paint-related problems. This individual is proficient in managing, controlling, and improving workforce skills, providing guidance, and evaluating employee performance. Additionally, the worker can develop standard operating procedures and compile performance reports.	A worker with knowledge, skills, capability, and experience in problem analysis for prevention, conducting productivity improvement activities, managing workers, and reviewing written operating procedures.			
	Vehicle Body Assembly Technician	A person capable of analyzing and diagnosing defects in automotive body repair work, modifying and testing the operation of equipment and systems, supervising and providing technical repair and service guidance to automotive body repair technicians, and preparing technical problem-solving reports.	A person capable of bending and straightening complex independent frame structures that have sustained significant damage to restore them to their original condition. This includes cutting, replacing, and joining structural components and independent frames using appropriate welding processes for the materials involved, as well as aligning and reshaping them to meet the standards outlined in the repair manual.	A person capable of disassembling, assembling, and storing automotive body parts involved in medium-level repair work. This individual can repair, bend, pull, weld, and replace damaged body components, including those with curved surfaces, seams, and relatively simple structures. Additionally, they can reshape and align parts to restore correct form and ensure normal functionality.	A person capable of disassembling, assembling, and storing automotive body components needing repair or replacement. This individual is skilled in repairing parts by using hammers and dollies, operating a washer welder and other repair tools, installing and adjusting various car components to ensure normal functionality, all while working under the supervision of a supervisor.			

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Pressing (cont.)	Machine Installation Assembly Technician		A person with advanced skills and knowledge who can analyze and diagnose problems, make informed decisions, and deeply understand work processes. This individual is proficient in guiding subordinates, using manuals, and adapting skills to new technologies, especially in decision-making and choosing appropriate methods. Furthermore, the individual possesses the knowledge, skills, and capability to manage machinery assembly and installation projects, estimate installation costs, develop assembly plans, compile lists of lifting equipment, tools, and materials needed for the work, and create operational manuals.	A person with intermediate-level skills, knowledge, and experience, who is proficient in using tools and equipment, can provide guidance to subordinates, ensuring high-quality work. This individual is capable of preparing lifting equipment, machine tools, and materials; overseeing the assembly and installation of machinery; conducting machinery test runs; ensuring workplace safety; and preparing installation reports.	A person with basic skills and knowledge who relies on a supervisor for guidance and decision-making on critical issues. This individual has the capability to work in compliance with safety requirements, safely move machinery and equipment, assemble and install machinery as assigned, and correctly maintain machine tools, tools, and lifting equipment.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
Welding	MAG Welder		A technician skilled in welding low-carbon steel pipes with butt welds in all welding positions. The welds are performed using an arc welding process with a continuous wire electrode and protected by an active gas shielding system. The shielding gases may include carbon dioxide, carbon dioxide-argon mixtures, or other active gas blends. The weld quality meets B Class standards as specified by ISO 5817.	A technician capable of welding low-carbon steel plates with butt welds in all welding positions. The welds are performed using an arc welding process with continuous wire electrodes and protected by active gas shielding. The shielding gases used may include carbon dioxide, carbon dioxide-argon mixtures, or other active gas blends. The weld quality meets B Class standards as defined by ISO 5817.	A technician capable of welding low-carbon steel plates and pipes with fillet welds in all welding positions. The welds are performed using an arc welding process with continuous wire electrodes and protected by active gas shielding. The shielding gases may include carbon dioxide, carbon dioxide-argon mixtures, or other active gas blends. The weld quality consistently meets B Class standards as defined by ISO 5817.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	TIG Welder		A welder capable of joining carbon steel or stainless steel pipes by hand or semi-automatically using a tungsten electrode arc welding process with an inert shielding gas. This individual specializes in butt welds (Butt-Weld) for pipe configurations in all welding positions, in accordance with ISO 9606-1. The resulting welds consistently achieve a B Class quality level as specified by ISO 5817.	A welder capable of joining carbon steel or stainless steel by hand or semi-automatically using a tungsten electrode arc welding process with an inert shielding gas. This individual specializes in making butt welds (Butt-Weld) for plate-to-plate configurations in all welding positions, in accordance with ISO 9606-1. The resulting welds meet the B Class quality standard as defined by ISO 5817.	A welder capable of joining carbon steel or stainless steel by hand or semi-automatically using a tungsten electrode arc welding process with an inert shielding gas. This individual is skilled in making fillet welds (Fillet Weld) for both plate-to-plate and plate-to-pipe configurations in all welding positions, in accordance with ISO 9606-1. The welds consistently achieve a B Class quality level as defined by ISO 5817.		
	Lathe Operator		A technician with advanced knowledge and diagnostic skills capable of making decisions, solving problems, providing guidance and support to others, and applying their expertise to modern technologies.	A technician with advanced knowledge and strong skills in using tools and equipment. While they may occasionally require guidance, they consistently produce high-quality work.	A technician with basic knowledge and skills who makes limited independent decisions, often relying on guidance or supervision.		

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Welding (cont.)	Shielded Metal Arc Welder				A worker with the ability to prepare and perform carbon steel welding using MMA (Manual Metal Arc) process with flux-coated electrodes, focusing on butt joints in pipe-to-pipe welding. Ensures quality welds in compliance with ISO 9606-1 and ISO 5817 standards, including pre- and post-welding preparation and safety measures	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Gas Welder		A highly skilled worker capable of analyzing and diagnosing issues with sound decision-making and a deep understanding of work processes. This individual excels at guiding subordinates, effectively referencing manuals, and applying knowledge and skills to new technologies—particularly in making well-informed decisions and selecting the most appropriate methods.	A moderately skilled worker with good knowledge, abilities, and experience in using tools and equipment. This individual is capable of providing guidance to subordinates and consistently delivering high-quality work.	A worker with basic skills and knowledge who performs tasks under the guidance of a supervisor, particularly when important decisions are required.		
	Robotic MIG-MAG Welding System Operator				A worker with the knowledge and ability to prepare safely and operate MIG-MAG robotic welding systems. Tasks include setting up the work environment, tools, shielding gas, and materials; programming the robot (teaching), controlling movement, setting parameters, linking signal commands, inspecting welds, maintaining equipment, and training subordinates.		
	Robotic Resistance Spot Welding System Operator		A technician with the knowledge, skills, and ability to ensure workplace safety, prepare the workspace, and implement personal protective measures. The technician is proficient in operating welding robots, welding machines, and associated equipment, as well as managing materials, workpiece fixtures, and programming (teaching). They are skilled in designing welding parameters, adjusting and running welding programs, integrating control signals with auxiliary devices, and using tools and equipment safely and correctly. Additionally, they are able to inspect and record defects, properly store welding equipment and tools, maintain the workspace and welding robots, and provide training to subordinates.	A technician with the knowledge, skills, and ability to prepare for safe working conditions, ensure personal protective measures, operate welding robots, and handle associated equipment and tools. The technician is proficient in material handling, workpiece fixture setup, robot movement control, programming (teaching), designing welding parameters, adjusting and running welding programs, and using tools and auxiliary equipment safely and correctly. Additionally, the technician can inspect and record workpiece defects, store welding machines and tools properly, and maintain the workspace effectively.	A technician with the knowledge and skills to ensure workplace safety, prepare the worksite, implement personal protective measures, and operate welding robots and associated equipment. The technician can handle materials and workpiece fixtures, follow specified designs, control robot movements, program (teach), run welding programs, and use tools and auxiliary equipment safely and accurately. Additionally, the technician can identify workpiece defects, properly store welding machines and tools, and maintain the work environment.		

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Welding (cont.)	Robotic Stud Welding System Operator		A technician with knowledge and capability in preparing workplace safety measures, workspace readiness, personal protective measures, welding robots, welding machines and related equipment, operational tools, shielding gases, materials, workpiece fixtures, robot motion control, and programming (teaching). The technician can design welding parameters, adjust and execute welding programs, integrate control signals, and operate auxiliary devices safely and accurately. Additionally, the technician inspects and records workpiece defects, properly manages storage of welding machines, related equipment, and tools, maintains welding robots, and provides effective training and guidance to subordinate staff.	A technician with knowledge and capability in preparing for workplace safety, setting up the workspace, ensuring personal protection, operating welding robots and machines with their associated equipment, handling tools and shielding gases, using materials and workpiece fixtures, controlling robot motion, teaching programming, and designing welding parameters. The technician can also adjust and execute welding programs, use auxiliary tools safely, inspect and record defects in workpieces, and properly store welding machines, tools, and equipment while maintaining the workspace.	A technician with knowledge and capability to prepare for workplace safety, ensure the readiness of the workspace, implement personal protection measures, and operate welding robots and associated equipment. The technician can work according to given designs and instructions, control the movement of welding robots, teach and execute welding programs, use tools and auxiliary equipment safely, identify defects in workpieces, and properly store welding machines, related equipment, and tools while maintaining the work environment.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	MIG-MAG Welder for Automotive Parts Manufacturing	A worker capable of performing tube-to-tube butt welding in vertical-down (PG) and 45-degree inclined (H-L045) positions, using specified materials to produce high-quality workpieces that meet established standards. The worker is proficient in production planning, supervising and controlling welding operations, and providing guidance, knowledge transfer, and skills training for various welding tasks.	A worker capable of performing butt welding (Plate-to-Plate: PA) in flat position, butt welding (Plate-to-Plate: PG) in vertical-down position, and fillet welding (Plate-to-Plate: PG) in vertical-down position, using specified materials to produce quality workpieces that meet defined standards. The worker is also skilled in identifying, troubleshooting, and resolving issues arising during production processes.	A worker capable of performing fillet welding of tube-to-plate joints in rotated flat position (Fillet Weld; Rotate: L-PA), horizontal position (Fillet Weld; Tube to Plate: PB), and vertical-down position (Fillet Weld; Tube to Plate: PG), using specified materials to produce quality workpieces that meet defined requirements, and is proficient in resolving issues related to welded components.	A worker capable of preparing and performing fillet welding operations for plate-to-plate T-joints in flat position (Fillet Weld; T-joint: PA), horizontal position (Fillet Weld; T-joint: PB), and vertical-down position (Fillet Weld; T-joint: PG), using specified materials to produce quality workpieces that meet defined standards, and who is able to adhere to all regulations related to MIG/MAG welding in the automotive parts manufacturing industry		
	Body Spot Welding Technician for Automotive Manufacturing	A worker with knowledge, skills, capability, and experience in workforce management, implementing productivity enhancement activities, providing supervision and consultation, evaluating the performance of subordinates, and verifying the accuracy of written standard operating procedures.	A worker with knowledge, skills, capability, and experience in inspecting, analyzing defects, and resolving issues related to automotive body spot welding operations. The worker prepares personnel, oversees daily process controls, analyzes product quality issues, creates Work Instructions (WI), continuously improves operational procedures, develops workforce skills, and compiles operational performance reports.	A worker with knowledge, skills, capability, and experience in performing spot welding operations across all process steps related to automotive body production. The worker is also able to provide support to Level 1 Operators, verify operational readiness, conduct quality control inspections, and prepare operational reports.	A worker with knowledge, skills, and capability in the operational procedures of a spot welding technician in the automotive manufacturing industry. The worker performs duties in compliance with safety regulations, prepares the workspace and equipment before starting work, carries out spot welding in at least three different production processes, and is capable of performing basic maintenance on welding machinery.		

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Welding (cont.)	Robotic Arc Welding Process Controller		A highly knowledgeable worker who possesses the ability to analyze, diagnose problems, and make sound decisions, with a thorough understanding of process workflows. The individual effectively mentors subordinates in skilled tasks and is proficient in utilizing manuals to apply knowledge and skills to new technologies—particularly in decision-making and selecting appropriate methods. This worker has advanced knowledge, skills, and capability in improving welding robot programs, analyzing issues related to robot operation and auxiliary equipment, planning and sequencing robot tasks, transferring knowledge and operational skills, and preparing user manuals and maintenance guidelines for robotic systems.	A worker with intermediate-level craftsmanship who possesses solid knowledge, skills, and experience in using tools and equipment effectively. This individual consistently delivers high-quality work and is capable of guiding subordinates. The worker also has the knowledge, skills, and capability to create application programs for controlling robotic operations, troubleshoot real-time issues, use jigs and fixtures for part positioning, verify the accuracy of welded components, conduct sample welding trials, and properly document and store relevant data.	A worker with fundamental skills and basic knowledge who performs tasks under the guidance of a supervisor, especially when important decisions are required. This individual has the knowledge, skills, and capability to prepare welding materials, equipment, and robotic systems, position workpieces on the welding table, recall and run pre-programmed routines, maintain and clean the welding robot, and perform duties in accordance with workplace safety regulations.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	
	Body Sealer Application Technician for Automotive Manufacturing	A worker with knowledge, skills, capability, and experience in reviewing and analyzing problems from a preventive perspective. The worker is able to implement productivity improvement initiatives, manage workforce resources effectively, and verify the accuracy and completeness of written standard operating procedures.	A worker with knowledge, skills, capability, and experience in inspecting and analyzing quality issues and defects, as well as resolving problems in automotive body sealer operations. The worker is responsible for preparing personnel, managing daily operations, developing employee skills, providing guidance to new staff on basic tasks, and evaluating employee performance. Additionally, the worker is capable of preparing standard operating procedures and compiling operational performance reports.	A worker with knowledge, skills, and capability to perform all processes in automotive body sealer operations, including sealing in complex and varied areas of the vehicle body. The worker is proficient in advanced techniques for using sealer guns, capable of maintaining and repairing them, and ensures operational readiness. Additionally, the worker can inspect and control the quality of sealed components and is able to prepare detailed operational reports.	A worker with knowledge, skills, and capability in performing automotive body sealer operations adheres to workplace safety regulations, prepares the work area prior to operation, and carries out pre-sealing procedures. The worker is proficient in at least three basic sealing tasks, can apply undercoat (Undercoat), and is capable of performing basic maintenance on sealing and undercoating equipment.		
	Surface Preparation Technician for Automotive Parts Manufacturing	A worker with knowledge, skills, and capability in developing and designing processes, including process design for new model components. The worker is able to implement preventive measures to avoid recurrence of issues, prepare operation manuals, and provide training and guidance on surface preparation techniques to junior staff.	a worker with knowledge, skills, and capability to analyze defects in workpieces and resolve on-site issues arising during production. The worker is proficient in identifying and addressing problems related to surface preparation conditions, raw material quality, and machinery or equipment malfunctions efficiently, with precision and speed.	A worker with knowledge, skills, and capability in performing final preparations before production is responsible for verifying measuring instruments prior to use, maintaining and storing weighing devices and measuring tools, adjusting tool and equipment settings, and identifying basic issues that arise during surface preparation of workpieces.	A worker with knowledge, skills, and capability in performing initial preparations prior to surface treatment is able to prepare workpiece surfaces in accordance with operational manuals and complies with occupational health and safety regulations as well as environmental laws during the course of work.		

	Functional area	VI: Be able to design a working system, products and services, organisational management, be able to analyse, do work planning, monitor and evaluate work performance and solve unexpected complex problems systematically and effectively with applied knowledge and skills as well as cost management, human resources development, cooperation and negotiation	V: Be able to perform complex task and participate in controlling and planning related work performance standards based on own knowledge, skills and ability. Be able to solve problems as well as provide training for subordinates	IV: Be able to perform tasks (both quality and reliability) through the PDCA and KAIZEN as per specified standards with own expertise with advice from level 5, be able to make own decision on problem-solving on related work and able to supervise and give advice or consult with subordinates	III: Be able to perform tasks, with expertise as per specified standards, with advice from level 4	II: Be able to perform tasks following steps under close supervision at level 3	I: Be able to perform basic and uncomplicated tasks under close supervision of level 2 and 3
Painting (cont.)	Body Paint Technician for Automotive Manufacturing		A worker with knowledge, skills, and capability in inspecting and analyzing quality issues and defects, as well as resolving problems in the field of automotive body paint operations. The worker is also responsible for preparing personnel, overseeing daily process control, developing employee operational skills, providing guidance to new staff on basic tasks, evaluating employee performance, creating standard operating procedures, and compiling performance reports.	A worker with knowledge, skills, and capability to perform all processes in body painting operations for the automotive manufacturing industry. The worker provides guidance on primer and topcoat applications, maintains and repairs spray guns, verifies operational readiness, inspects and controls the quality of painted parts, and is able to document and prepare operational reports.	A worker with knowledge, skills, and capability to perform duties in compliance with workplace regulations and safety standards. The worker is able to identify hazards in the work environment and determine appropriate corrective measures, prepare the work area before starting operations, and carry out surface preparation prior to painting. The worker is skilled in applying primer and topcoat paint in at least three types of painting tasks, performs visual inspection of painted surfaces, and is also capable of basic maintenance of painting equipment and spray booth facilities.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
Stamping	Metal Stamping Die Fitting Technician	A worker with knowledge, skills, and capability in planning and managing metal stamping die assembly is responsible for coordinating die adjustment activities based on inputs from production and design departments. The worker is proficient in planning assembly steps and techniques for metal stamping dies, as well as controlling and resolving issues related to die adjustment and assembly processes.	A worker with knowledge, skills, and capability in preparing tools, equipment, and complex metal stamping die components is proficient in assembling and adjusting complex dies—specifically progressive dies that include forming (draw form) processes. The worker is able to inspect the performance of complex metal stamping dies, troubleshoot issues arising from die assembly, conduct trial runs, and resolve problems encountered during the testing of complex metal stamping dies.	A worker with knowledge, skills, and capability in preparing tools, equipment, and metal stamping die components is proficient in assembling and adjusting metal stamping dies—including single dies, compound dies, and progressive dies used for cutting and piercing operations. The worker is capable of inspecting die performance, troubleshooting issues arising from die assembly, conducting trial runs, and resolving problems encountered during metal stamping die testing.	A worker with knowledge, skills, and capability in preparing tools, basic machine tools, and equipment for metal stamping die adjustment. The worker is proficient in using hand tools and basic machine tools to modify die components, measure workpiece dimensions according to technical drawings, and perform maintenance on tools and basic machinery used in the setup and adjustment of metal stamping dies.		
Manufacturing	Mechanical Maintenance Technician for Automotive Parts Manufacturing	A worker capable of planning machinery maintenance activities is responsible for analyzing and compiling statistical data reports to establish preventive and major maintenance schedules. The worker is also skilled in transferring knowledge and technical skills related to the maintenance and repair of various types of machinery.	A worker capable of supervising and inspecting piping system installations, machinery relocation, and setup is also responsible for performing preventive maintenance and repairs on mechanical equipment according to scheduled intervals, ensuring that all machinery remains in a ready-to-use condition.	A worker capable of performing disassembly and replacement of parts and components in hydraulic and pneumatic systems, as well as changing, draining, and refilling lubricants. The worker also replaces mechanical components and electrical parts of machinery according to scheduled maintenance intervals, ensuring the equipment is ready for production as planned.	A worker capable of performing maintenance on piping systems, electrical systems, hydraulic and pneumatic machinery, basic mechanical equipment, and motors according to scheduled maintenance intervals. The worker prepares tools, measuring instruments, and necessary equipment to carry out maintenance tasks, ensuring machinery is in optimal condition for production. Additionally, the worker operates in full compliance with safety regulations and requirements for maintenance work within the automotive parts manufacturing industry.		

Electrical vehicle (EV) Components and Manufacturing

Functional area	VI: Be able to design a working system, products and services, organisational management, be able to analyse, do work planning, monitor and evaluate work performance and solve unexpected complex problems systematically and effectively with applied knowledge and skills as well as cost management, human resources development, cooperation and negotiation	V: Be able to perform complex task and participate in controlling and planning related work performance standards based on own knowledge, skills and ability. Be able to solve problems as well as provide training for subordinates	IV: Be able to perform tasks (both quality and reliability) through the PDCA and KAIZEN as per specified standards with own expertise with advice from level 5, be able to make own decision on problem-solving on related work and able to supervise and give advice or consult with subordinates	III: Be able to perform tasks, with expertise as per specified standards, with advice from level 4	II: Be able to perform tasks following steps under close supervision at level 3	I: Be able to perform basic and uncomplicated tasks under close supervision of level 2 and 3
High-Voltage Battery Assembly Technician			A worker with technical competency and hands-on skills in applying engineering principles, selecting appropriate tools, and performing tasks in compliance with industry standards. This individual is capable of troubleshooting technical issues on-site using operational manuals while safely assembling high-voltage electric vehicle (EV) batteries. The worker is able to select and prepare battery cells for assembly in accordance with technical guidelines, accurately prepare materials and components for battery module or pack assembly, and assemble the batteries correctly based on design specifications. They can perform insulation resistance testing on battery modules or packs in line with safety and quality standards, as well as control the assembly and testing processes to ensure compliance. Additionally, the worker understands and can articulate the key concepts of the job using sound principles, and utilizes information systems to monitor and control the quality of outputs under the guidance of a supervisor.			
High-Voltage Battery Design and Testing Technician		A worker with technical competency and the ability to manage problem-solving in dynamic and evolving work environments. This individual is capable of independently analyzing and evaluating situations, demonstrates leadership, provides knowledge transfer through on-the-job training, and supervises team members to achieve planned objectives. The worker possesses strong data analysis and planning skills to resolve complex issues related to the safe assembly of high-voltage electric vehicle (EV) batteries. They are capable of designing battery module or pack specifications that align with usage requirements, overseeing the assembly and testing processes to ensure compliance with technical and safety standards, and maintaining production records in accordance with documentation standards. In addition, the worker evaluates production costs, manages the production of battery modules or packs, and continuously assesses performance and enhances productivity throughout the manufacturing process.				

Internal combustion engine (ICE) Assembly

	Functional area	VI: Be able to design a working system, products and services, organisational management, be able to analyse, do work planning, monitor and evaluate work performance and solve unexpected complex problems systematically and effectively with applied knowledge and skills as well as cost management, human resources development, cooperation and negotiation	V: Be able to perform complex task and participate in controlling and planning related work performance standards based on own knowledge, skills and ability. Be able to solve problems as well as provide training for subordinates	IV: Be able to perform tasks (both quality and reliability) through the PDCA and KAIZEN as per specified standards with own expertise with advice from level 5, be able to make own decision on problem-solving on related work and able to supervise and give advice or consult with subordinates	III: Be able to perform tasks, with expertise as per specified standards, with advice from level 4	II: Be able to perform tasks following steps under close supervision at level 3	I: Be able to perform basic and uncomplicated tasks under close supervision of level 2 and 3
Electrical Installation	Electrical Installation Technician	An individual who can successfully manage a department to achieve its objectives, inspect the entire production process of electrical and communication systems, prepare documentation, and coordinate with various organizations to ensure project delivery.	A worker who can plan tasks, supervise, and prepare the workspace and equipment for installing core electrical and communication system components. They can inspect the installation process to ensure compliance with specifications and prepare documentation while coordinating with relevant parties.	A worker who can operate, maintain, and prepare tools and equipment for measuring and installing electrical and communication systems accurately and safely. They can install conduits, cable trays, and wiring according to specified designs while ensuring compliance with safety standards.	A worker who can operate and maintain tools and measuring instruments, perform basic installation of electrical and communication equipment, and comply with electrical and communication safety regulations. The work is carried out under the supervision of a supervisor.		
Interior Installation	Interior and Exterior Assembly Operator for the Automotive Manufacturing Industry	A specialist who can review and analyze issues for preventive measures, support productivity improvement activities, manage workforce allocation, and provide consultation. They are also responsible for summarizing operational reports, presenting findings, and drafting standard operating procedures.	A worker with expertise in undercarriage assembly inspects, analyzes, and resolves issues; oversees daily operations; improves work procedures; provides on-the-job training; evaluates Operators; prepares Work Instructions (WI); and compiles operational reports.	A worker with expertise in undercarriage assembly verifies operational readiness, performs all assembly steps in full compliance, and is capable of preparing comprehensive reports.	A worker with skills in undercarriage assembly is proficient in job preparation, component inspection, tightening and securing parts, and adhering to safety regulations. The technician specializes in at least one undercarriage system assembly task and conducts post-assembly quality checks using both tools and sensory evaluation.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
Quality Inspection	In-Process Quality Control Operator for Vehicle Assembly	A worker with knowledge, capability, and experience in workforce management supports production ramp-up, monitors operational performance, and maintains quality records.	A worker with knowledge, skills, and competency in verifying readiness, preparing and supporting Operators, providing training, driving improvement and development initiatives, analyzing problems, formulating operational plans, and compiling performance reports.	A worker with knowledge, skills, and capability to perform all operational processes, verify operational and quality readiness, and record findings for reporting to the supervisor.	A worker with knowledge, skills, and capability in automotive assembly processes is able to operate and maintain equipment, perform quality inspections for at least three tasks, and carry out duties in compliance with safety regulations.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	Quality Assurance Operator for Vehicle and Component Products (Final Inspection)	A worker with knowledge, skills, capability, and experience in workforce management, supporting productivity enhancement activities, and reviewing standard operating sheets as well as maintaining quality records.	A worker with knowledge, skills, capability, and experience in conducting inspections, preparing inspection personnel, overseeing daily operational processes, developing operational skills, driving continuous improvement, analyzing root causes of issues, formulating standard operating procedures, and compiling performance reports.	A worker with knowledge, skills, capability, and experience in executing all processes in accordance with standard operating procedures and departmental responsibilities. This includes vehicle driving, vehicle height-level inspection, wheel alignment check, speed testing (Speed Tester), brake system testing (Brake Tester), headlamp level inspection, cabin water leakage check (Shower Test), dynamic vehicle testing, and final product quality inspection. The worker is also responsible for verifying operational readiness, collecting quality inspection results, and reporting findings to the supervisor.	A worker with knowledge, skills, and capability to perform in compliance with safety regulations and standard operating procedures in the field of final automotive product quality assurance. The worker is proficient in at least three of the following processes: driving vehicles as specified by the organization, vehicle height-level inspection, wheel alignment check, speed testing (Speed Tester), brake system testing (Brake Tester), headlamp level inspection, cabin water leakage check (Shower Test), dynamic vehicle testing, and final product quality inspection.		
	Assembly Line Operator for the Automotive Industry	A worker with expertise is capable of reviewing and analyzing problems with a preventive approach, supporting productivity improvement activities, managing workforce resources, and providing consultation. The worker also compiles and presents operational reports and develops standard operating procedures.	A worker with expertise in undercarriage assembly inspects, analyzes, and resolves issues; manages daily operations; improves work procedures; provides training; evaluates Operators; prepares Work Instructions (WI); and compiles performance reports.	A worker with expertise in undercarriage assembly verifies readiness, performs all assembly steps thoroughly, and is capable of preparing detailed reports.	A technician with skills in undercarriage assembly is proficient in job preparation, component inspection, tightening and securing parts, and complying with safety regulations. The technician is specialized in at least one undercarriage assembly task and conducts post-assembly quality checks using both tools and sensory evaluation.		

Functional area		VI: Be able to design a working system, products and services, organisational management, be able to analyse, do work planning, monitor and evaluate work performance and solve unexpected complex problems systematically and effectively with applied knowledge and skills as well as cost management, human resources development, cooperation and negotiation	V: Be able to perform complex task and participate in controlling and planning related work performance standards based on own knowledge, skills and ability. Be able to solve problems as well as provide training for subordinates	IV: Be able to perform tasks (both quality and reliability) through the PDCA and KAIZEN as per specified standards with own expertise with advice from level 5, be able to make own decision on problem-solving on related work and able to supervise and give advice or consult with subordinates	III: Be able to perform tasks, with expertise as per specified standards, with advice from level 4	II: Be able to perform tasks following steps under close supervision at level 3	I: Be able to perform basic and uncomplicated tasks under close supervision of level 2 and 3
Quality Inspection (cont.)	Equipment Installation Operator for the Automotive Industry	A worker with knowledge, skills, and capability in reviewing and analyzing problems from a preventive perspective, capable of planning and executing production control activities, managing workforce resources, transferring knowledge and operational skills, as well as verifying the accuracy of written standard operating procedures.	A worker with knowledge, skills, and capability in inspecting and analyzing defects, as well as resolving issues in the field of interior and exterior automotive component assembly. The worker is responsible for preparing personnel, overseeing daily operations, and analyzing quality issues related to components. Additionally, the worker can improve work processes, develop Operator skills, provide guidance to new employees on basic tasks, and evaluate employee performance. The worker is also capable of preparing Work Instructions (WI) and compiling performance rep.	A worker with knowledge, skills, and capability to perform all processes, along with experience in fulfilling responsibilities across various automotive production sites in the field of interior and exterior component assembly. The worker possesses technical expertise in assembling interior and exterior automotive components, as well as in maintaining tools and repairing equipment used in the assembly process. The worker can verify operational readiness and is able to identify and gather issues arising from the interior and exterior assembly processes for reporting to the supervisor.	A worker with knowledge, skills, and capability in performing tasks related to interior and exterior automotive component assembly, in compliance with workplace regulations—especially safety standards. The worker is able to identify hazards in the work environment and determine appropriate corrective actions, prepare for operations before starting work, and inspect parts used for interior and exterior assembly. The worker is skilled in fastening with bolts, nuts, and screws; securing with grommets, clips, and clamps; and bonding with sealers, adhesive tapes, and glues. The worker is proficient in at least one interior or exterior assembly task such as wiring harness assembly, door seal installation, instrument panel and console assembly, and door or hood alignment. Additionally, the worker can perform visual inspections post-assembly, operate inspection tools, and carry out basic maintenance of tools and equipment used in interior and exterior component assembly.	A worker with the basic ability to perform tasks following defined steps under close supervision at level 3, in compliance with occupational safety standards while maintaining quality. The worker is capable of handling more complex tasks, provides guidance to level 1 workers, contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.	A worker with the ability to perform basic and uncomplicated tasks under close supervision of level 2 and 3 in compliance with occupational safety standards, while maintaining quality. The worker contributes to continuous improvement efforts, demonstrates accuracy and speed in execution, works effectively as part of a team, and communicates clearly and professionally.
	In-Process Quality Control Operator for Vehicle Assembly	Operator with knowledge, skills, and experience in manpower management, productivity improvement support activities, as well as work instruction verification and quality record documentation.	A worker with knowledge, skills, and capability in inspection, preparation of inspection personnel, and daily process control. The worker is also proficient in providing training, driving continuous improvement, analyzing root causes of problems, developing standard operating procedures, and compiling performance reports.	A worker with knowledge, skills, and capability to perform all tasks in accordance with safety regulations and standard operating procedures. This includes the use and maintenance of tools and equipment as specified by the organization, inspection of bolt, nut, and screw torque; inspection of grommet, clip, and clamp fastening; pipe routing inspection; model verification; wiring harness plug inspection; body and paint (appearance) inspection; part and equipment specification checks; fluid inspections; as well as gap and level measurements using measuring tools. The worker is also responsible for verifying operational readiness, collecting quality inspection results during the assembly process, and reporting findings to the supervisor.	A worker with knowledge, skills, and capability in the operational procedures of automotive assembly quality inspection, performing duties in compliance with workplace safety regulations. The worker is able to use and maintain tools and equipment as specified by the organization and possesses the skills to carry out quality inspections in at least three assembly-related tasks. These tasks include torque inspection of bolts, nuts, and screws; fastening checks using grommets, clips, and clamps; pipe routing inspection; vehicle model verification; wiring harness plug inspection; body and paint (appearance) inspection; part and equipment specification checks; fluid inspection; and gap and surface level measurements using precision measuring tools.		
	Vehicle Assembly Process Improvement Technician	A worker with knowledge, skills, and capability in planning maintenance and repair of machinery and equipment in accordance with safety standards. The worker is able to identify workplace hazards, plan preventive maintenance, and investigate root causes of equipment failures. Additionally, the worker can estimate maintenance costs and provide training to maintenance technicians in electrical, pneumatic, hydraulic, and mechanical systems.	A worker with knowledge, skills, and capability in inspecting, maintaining, and repairing machinery within the automotive assembly plant in compliance with safety regulations. The worker is able to identify workplace hazards, inspect and analyze equipment performance, troubleshoot and correct abnormalities, monitor maintenance plans, and prepare summary reports on machinery and equipment repairs.	A worker with knowledge, skills, and capability in inspecting, maintaining, and repairing machinery and equipment in the automotive assembly plant in accordance with safety standards. The worker is also able to identify hazards in the workplace, modify corrective methods for equipment abnormalities, and verify the readiness of PLC systems prior to operation.	A worker with knowledge, skills, and capability in inspecting and preparing machinery and equipment in the automotive assembly plant in compliance with safety regulations. The worker is able to identify hazards in the workplace, use measuring instruments, and record variable data from machines and equipment related to maintenance systems, including electrical, pneumatic, hydraulic, and mechanical systems.		

The qualifications and occupational map is developed following the eight levels of the National Qualifications Framework (NQF) and aligned with Thailand's national competency and skills standards. Occupations within functional areas corresponding to competency Levels VI and VIII under the NQF are excluded from the map