

Overview of Newly Added Units of Competency

Serial Number	Unit of Competency Code	Unit of Competency Title	Level	QF Credit	Functional Area									
					Administrative	Business Intelligence and	Human Resource	Marketing, Sales and	Financial Management and	Product Design and	Process Design and	Product Manufacturing	Supply Chain Management	Product Quality Monitoring
1	111558L6	Establish and apply Industry 4.0 enterprise database, conduct data analysis, understand data-driven operation models, provide feedback recommendations to enhance departmental operations and performance	Level 6	6		X							X	
2	111556L6	Establish “Industry 4.0” architecture to interconnect devices within enterprise, achieve single data source, uncover useful data, and assist enterprise in digital transformation and comprehensive operational improvements	Level 6	6		X				X	X	X		
3	111557L6	Analyse application areas of “Industry 4.0”, helps enterprise to conduct data-driven and intelligent operations in appropriate areas and continuously improve efficiency	Level 6	5		X		X		X	X	X	X	
4	111552L5	Implement “Industry 4.0” vertical and horizontal integration and connecting various departments and levels within enterprise to achieve data interconnection and interoperability, comprehensive digital transformation can be realised	Level 5	6		X				X	X	X	X	
5	111553L5	Implement “Industry 4.0” extended product lifecycle management involves monitor product condition throughout their entire lifecycle, from design, manufacturing, completion, and customer use, to disposal, ultimately optimising the lifecycle and user experience	Level 5	6		X		X						
6	111554L5	Establish "Industry 4.0" enterprise database to provide comprehensive, multi-faceted, and real-time operational data for recording and analysis purposes	Level 5	6		X							X	

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7	111555L5	Implement “Industry 4.0” digital operations and performance management, establish digital dashboards as needed, develop enterprise digital key performance indicators	Level 5	6		X					X		X	
8	111549L4	Establish and apply Industry 4.0 enterprise database, conduct data analysis, understand data-driven operation models, provide feedback recommendations to enhance departmental operations and performance feedback suggestions to subordinate departments, and improve operations and efficiency.	Level 4	6		X		X	X		X	X	X	X
9	111550L4	Apply Industry 4.0 implementation tools, include hardware and software, to collect and utilise data across different operational areas of enterprise	Level 4	5		X		X			X	X	X	X
10	111559L3	Apply "Industry 4.0” digital lean principles and use real-time data collected from relevant departments, initially identify wasteful processes or procedures throughout enterprise’s value chain, enable focused operational improvements and lean practices within corresponding departments	Level 3	6		X			X		X	X	X	X
11	111547L3	Implement cybersecurity for Industry 4.0, promote network and information security control measures that simultaneously enable information exchange and ensure information system security in Industry 4.0	Level 3	6		X		X			X		X	
12	111564L5	Develop and formulate intelligent processing and testing procedures, methods, and equipment for metal die casting, casting and extrusion products, and upgrade them to machine networking and data-driven operation	Level 5	6							X			

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13	111565L5	Develop and formulate intelligent processing and inspection procedures, methods, and equipment for metal stamping and sheet metal products, and upgrade them to machine networking and data-driven operation	Level 5	6							X			
14	111566L5	Develop and formulate intelligent processing and testing procedures, methods, and equipment for plastic products, and upgrade them to machine networking and data-driven operation	Level 5	6							X			
15	111567L5	Develop and formulate intelligent processing and inspection procedures, methods, and equipment for moulds, and upgrade them to machine networking and data-driven operation	Level 5	6							X			
16	111560L3	Operate and maintain intelligent and automated processing and design equipment, systems and processes for die casting, casting and extrusion of metal products; collect and monitor process data for die casting, casting and extrusion products	Level 3	3							X			
17	111561L3	Operate and maintain intelligent and automated equipment, systems, and processes for metal stamping and sheet metal product manufacturing, collect and monitor process data	Level 3	3							X			
18	111562L3	Operate and maintain intelligent and automated equipment, systems, and processes for plastic product manufacturing, collect and monitor plastic product process data	Level 3	3							X			
19	111563L3	Operate, maintain intelligent and automated mould processing and design equipment, systems and processes, collect and monitor mould process data	Level 3	3							X			
20	111568L2	Operate injection moulding equipment, perform processing products to meet application requirements	Level 2	3								X		

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21	111574L4	Apply Industry 4.0 implementation tools, include hardware and software, to collect and utilise data across different operational areas of enterprise	Level 4	6								X		
22	111575L4	Implement digitalisation of metal stamping and sheet metal processing equipment and related configurations, provide real-time visualisation dashboards for production status in metal stamping and sheet metal processing workshops	Level 4	6								X		
23	111576L4	Implement digitalisation of surface treatment processing equipment and related configurations, and provide real-time visualisation dashboards for production status in surface treatment processing workshops	Level 4	6								X		
24	111577L4	Implement digitalisation of injection moulding and other plastic processing equipment and related configurations, and provide real-time visualisation dashboards for production status in injection moulding and other plastic processing workshops	Level 4	6								X		
25	111578L4	Implement digitalisation of mould processing equipment and related configurations, and provide real-time visualisation dashboards for production status in mould processing workshops	Level 4	6								X		
26	111569L3	Operate and maintain data acquisition equipment and systems for metal die casting, casting and extrusion products; store, manage, and assist in analysis of digital production data for metal die casting, casting and extrusion products	Level 3	3								X		
27	111570L3	Operate and maintain data acquisition equipment and systems for metal stamping and sheet metal product production; store, manage, and assist in analysis of digital production data for metal stamping and sheet metal products	Level 3	3								X		

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28	111571L3	Operate and maintain data collection equipment and systems for surface treatment and processing product manufacturing; store, manage, and assist in analysis of digital production data in metal surface treatment and processing	Level 3	3								X		
29	111572L3	Operate and maintain intelligent data acquisition equipment and systems for plastic product manufacturing, store, manage, and assist in analysis of digital production data for plastic products	Level 3	3								X		
30	111573L3	Operate and maintain mould production data acquisition equipment and systems, store, manage, and assist analysis of digital mould production data	Level 3	4								X		
31	111551L4	Introduce and apply Industry 4.0, understand the scope, departments, necessary tools and facilities for implementation, and identify data on visual dashboards for monitoring and initial analysis	Level 4	5	X	X	X	X	X	X	X	X	X	X
32	111548L3	Understand Industry 4.0, gain basic understanding of its content, application scope, data collection methods, benefits of digital operations for enterprises, and basic cybersecurity knowledge required for implementing data-driven operations	Level 3	3	X	X	X	X	X	X	X	X	X	X