

Specification of Competency Standards
for the Manufacturing Technology.
Unit of Competency.

Functional Area - Product Manufacturing

Title	Implement factory management to improve production efficiency and monitor the timely completion of production plans
Code	106458L5
Range	This unit of competency is applicable to the product design and development departments, process design and development departments / engineering departments, and product manufacturing departments / production departments of enterprises in the manufacturing technology industry . Practitioners should be capable to apply production management knowledge to manage manufacturing plants in accordance with occupational safety and environmental regulations, monitor timely production completion, and improve production efficiency
Level	5
Credit	5
Competency	Performance Requirements - Understand relevant knowledge of manufacturing plant production management knowledge and occupational safety - Understand corporate management systems - Understand various manufacturing technologies and other commonly used manufacturing techniques - Understand production management, including production material management, quality control, production time management, and production efficiency - Understand relevant legal requirements for occupational safety and environmental protection - Understand maintenance methods of equipment in the factory - Understand how to use the clamps - Understand the application technologies of semi-automatic and fully automatic equipment in manufacturing plants, including total productive maintenance (TPM) - Understand role of connecting production equipment to industrial internet of things (IIoT) system in improving overall equipment effectiveness (OEE) and utilisation - Understand tools, facilities, and systems for collect, analyse, and evaluate various production data - Factory management - Able to perform daily operation and management work in manufacturing plants / factories - Able to design workflows and provide safe working environment in accordance with relevant laws and regulations - Able to execute and set manufacturing production plans, establish departmental requirements for production volume, cost, quality, and delivery time, including master production schedule and material requirements planning - Able to solve unconventional problems that arise during departmental operations - Able to develop appropriate guidelines should be developed for operation of manufacturing equipment, as well as for handling chemicals and heat, to prevent accidents - Able to interpret, evaluate, report, and present production performance, and able to systematically arrange employee training using relevant data

	• Able to connect production equipment to industrial IoT system to monitor, regulate, and manage overall equipment efficiency (OEE) and utilisation • Able to collect and analyse various real-time production data and make timely production adjustments and corrections to ensure production efficiency, product quality, and on-time completion of production plans 3. Professional handling of factory management • Able to manage factory or plant operations in accordance with the safety guidelines of the Occupational Safety and Health Ordinance
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to apply production management knowledge to control and set up maintenance methods and application technologies for equipment within the plant, as well as total productive maintenance (TPM) implementation methods, in accordance with occupational safety and environmental protection laws and regulations • Able to connect production equipment to industrial internet of things (IIoT) system through the management system to monitor overall equipment effectiveness (OEE) and utilisation, collect, analyse, and evaluate real-time production data, and make timely production adjustments and corrections to improve production efficiency
Remark	This is the updated version of UoC 106458L4