

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

Functional Area - Process Design and Development

Title	Develop maintenance plans and operating procedures for all machinery and peripheral equipment, and monitor their operation to ensure all machines within enterprise receive proper maintenance and avoid unexpected production downtime
Code	106496L5
Range	This unit of competency is applicable to the process design and development departments / engineering departments of enterprises in the manufacturing technology industry. Practitioners should be capable to need to understand the operation of various machines and peripheral equipment within the enterprise, to develop relevant maintenance plans and operating procedures
Level	5
Credit	4
Competency	Performance Requirements - Understand relevant knowledge of various machines and peripheral equipment within enterprise - Understand types and models of various machines within the enterprise, as well as their structure, operation, function, and characteristics - Understand available accessories, tools, and peripheral equipment for various machines within the enterprise, as well as their functions and characteristics - Understand methods and techniques for maintaining and operating various mechanical and peripheral equipment within the enterprise - Understand concept of preventative maintenance - Understand environmental requirements for maintenance and upkeep of various machines and peripheral equipment, including air cleanliness, lighting system control, temperature and humidity control, etc. - Understand the methods, facilities, and systems for collect and analyse real-time data on machinery operation, and monitor the machinery's normal operation or maintenance needs based on the data - Develop and monitor relevant operating procedures for various machines and peripheral equipment - Able to develop internal operating procedures for various machines and peripheral equipment - Able to review effectiveness, applicability, and operability of maintenance plans and related procedures for various machines and peripheral equipment, regularly update, revise, and optimise them - Able to collect and analyse data on mechanical and equipment failures, develop corresponding maintenance plans, including preventative maintenance plans - Able to identify critical equipment within enterprise, prioritise its maintenance, and recommend to management about purchase or development of alternative equipment - Professional handling of the development and monitoring of relevant operating procedures for various machines and peripheral equipment - Able to ensure maintenance plans and operating procedures for various machines and peripheral equipment are implemented effectively - Able to ensure the production line will not be shut down or experience decline in capacity or product quality due to mechanical or peripheral equipment failures

Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to develop relevant maintenance plans and operating procedures for enterprises • Able to review effectiveness, applicability, and operability of maintenance plans and related procedures for various machines and peripheral equipment, and regularly update, revise, and optimise them
Remark	This is the updated version of UoC 106496L4