

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

Functional Area - Product Manufacturing

Title	Supervise and monitor the operation and maintenance of production equipment
Code	106460L4
Range	This unit of competency is applicable to the production department of the corporation of Manufacturing Technologies Industries. Practitioners should be capable to formulate appropriate guidelines, standardise the equipment operation and preventive maintenance methods, so as to ensure the proper operation of production equipment
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of supervising and monitoring the operation of production equipment <ul style="list-style-type: none"> • Recognise all kinds of equipment of the workshop • Recognise all kinds of occupational safety standards and regulations, such as OHSAS 18001, labor law and Occupational Safety and Health Ordinance Recognise existing quality management system of the corporation • Understand all kinds of equipment maintenance strategies, such as production maintenance, Preventive maintenance, Corrective maintenance and improving maintenance 2. Supervise and monitor the operation of production equipment <ul style="list-style-type: none"> • Set guidelines of production equipment operation, production equipment maintenance and all relevant working guidelines, standardise the equipment operation and maintenance procedures • According to internal company standards and specifications, regularly make review, recording, analysis and reporting • Ensure that all staff in shopfloor understand the instructions of production equipment operating, preventive maintenance of production equipment and the locations, format and contents of all kinds of working guidelines • Ensure the operation and maintenance of the equipment compile with all kinds of occupational safety standards and regulations, such as OHSAS 18001, labor laws and Occupational Safety and Health Ordinance • Analyse equipment reliability, such as Capacity Utilization, Overall equipment Effectiveness (OEE), Mean time to recovery(MTTR), Mean time between failures (MTBF). • Develop repair, maintenance and preventive maintenance programs, such as arrangement of manpower, allocation and setting maintenance personnel and time • Analyze the causes of equipment failure, continue to improve the design of preventive maintenance so as to reduce the failure rate • Reflect the situation of production equipment to management, so as arrange equipment overhaul or replacement 3. Professional handling of supervising and monitoring the operation of production equipment <ul style="list-style-type: none"> • Follow the safety guidance of Occupational Safety & Health Ordinance , supervise and monitor the operation of production equipment • When supervising and monitoring the operation of production equipment, consider the relevant cost of preventive maintenance of production equipment
Assessment Criteria	The integrated outcome requirements of this unit of competency are:

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	<ul style="list-style-type: none">• Capable to develop guidelines of production equipment operation, production equipment preventive maintenance and all kinds of relevant guidelines and ensure that staff understand and follow the guidelines to work• Capable to Develop and continuously improve the appropriate equipment preventive maintenance plan
Remark	