

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

Functional Area - Supply Chain Management

Title	Establish and maintain electronic inventory identification and management system, to ensure appropriate inventory levels
Code	106507L5
Range	This unit of competency is applicable to the supply chain management departments of enterprises in the manufacturing technology industry. Practitioners should be capable to establish and maintain electronic inventory identification and management systems for incoming materials and finished goods and continuously improve the system efficiency
Level	5
Credit	6
Competency	Performance Requirements - Understand relevant knowledge of establishing and maintaining electronic inventory identification and management system - Understand enterprise's overall business strategy - Understand inventory characteristics and quality requirements - Understand concept of electronic identification technology for goods - Understand branches of electronic identification technologies for goods, such as barcodes, QR codes, and radio frequency identification (RFID), etc. - Understand basic application concepts and requirements of various electronic inventory identification technologies, such as electronic product code, radio frequency identification (RFID), and bar code identification - Understand corresponding supporting equipment required for various identification technologies or standards, such as requirements for different RFID tags and corresponding readers - Understand the equipment used in electronic identification technology for goods, such as readers, sensors, antennas, etc. - Understand limitations, potential errors, and misreading scenarios of electronic identification technology for goods, such as data types and capacities for storage of different label or barcode encoding standards, as well as effective distance between label or barcode, QR code, and reader, etc. - Understand methods and systems for importing real-time data collected from electronic tags into internet of things (IoT) - Establish and maintain an electronic inventory identification and management system - Able to analyse enterprise warehouse and inventory actual scenario, derive characteristics, problems, and needs of warehouse operations - Able to define application scope of electronic inventory identification and management system - Able to identify and manage requirement list of the system based on needs of management and relevant departments, such as data list that the system needs to record, as well as its processing and storage requirements, to collect useful data - Able to conduct gap and cost-benefit analyses on various solutions, present them to management and rise recommendations

	• Able to select appropriate suppliers to establish electronic inventory identification and management systems, and lead the project team to work with suppliers to establish the systems • Able to fabricate maintenance schedules for electronic inventory identification and management systems to ensure effective operation of related equipments • Able to arrange appropriate training to ensure all relevant personnel can operate the electronic inventory identification and management system • Able to establish appropriate communication channels, to collect feedback from different employees on electronic inventory identification and management technology systems, review the effectiveness of the existing systems, and report to management with improvement suggestions • Able to collect and analyse real time data from electronic tags, to regulate and manage warehouse inventory 3. Professional handling of establishing and maintaining an electronic inventory identification and management system • Able to prevent any abuse / misappropriation / theft of enterprise assets, or other forms of power abuse or fraud • Able to ensure the provided inventory information is accurate
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to evaluate efficiency and effectiveness of various electronic identification technologies for goods, select and establish suitable electronic inventory identification and management system for enterprises • Able to manage and maintain the electronic inventory identification and management system, and ensure all relevant employees can operate the system correctly
Remark	This is the updated version of UoC 106507L4