

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

Functional Area - Product Design and Development

Title	Estimate and control of product development and manufacturing cost
Code	106486L4
Range	This unit of competency is applicable to design and development departments of Manufacturing Technology Industry. Practitioners should be capable to master the required direct costs, indirect costs, equipment and human resources of the products, estimate and control of product development and manufacturing cost
Level	4
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of estimating and control of product development and manufacturing cost <ul style="list-style-type: none"> • Recognise all kinds of products processes in the corporation • Understand tax and relevant legal requirements of the operating regions • Understand the basic accounting • Understand the calculation method of product cost • Understand the product development process and time needed • Understand the human resources, equipment and time needed for different production processes • Understand the calculation standard of direct costs and indirect costs 2. Estimate the of control of product development and manufacturing <ul style="list-style-type: none"> • Base on the product requirements, estimate the time needed for human resource development, and estimate the relevant development costs • Cooperate with all team members and different corporate departments, base on the product design and production capacity, estimate the needed direct cost of materials, human resource costs, using time and cost of equipment, all kinds of indirect costs • Analyse the cost structure, discuss improvement ways with team members and different departments in the corporation • Integrate the entire project cost and average cost of product, make a reasonable quotation • Supervise and monitor project costs, ensure the project profits, and make appropriate response when there are differences in the cost 3. Professional handling estimating and control of product development and manufacturing cost <ul style="list-style-type: none"> • Detailedly consider elements such as safety, risk, productivity, quality, environmental protection and cost, estimate and control of product development and manufacturing cost and meet all aspects of requirements
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to apply product development and manufacturing expertise, cooperate with different departments, estimate entire project cost and the average product cost and make quotations • Capable to control the cost difference, ensuring the profit of project
Remark	