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

Functional Area - Product Design and Development

Title	Overall management on product development projects
Code	106578L5
Range	This unit of competency is applicable to design and development departments of Manufacturing Technology Industry. Practitioners should be familiar with the knowledge of overall management on projects, capable to comprehensively manage the product development project schedule, risk, scope of work, cost and engineering modifications and other issues
Level	5
Credit	3 （For Reference Only）
Competency	Performance Requirements 1. Understand the knowledge of overall management on product development projects • Understand the corporate project management strategies and corporate risk management strategies • Understand different product development projects requirements of all stakeholders, and analysis methods of stakeholders needs • Understand methods of overall management on product development projects and the application of relevant tools, such as the work breakdown structure chart (WBS), organizational breakdown structure chart (OBS), Gantt Chart, Milestone, the project budget, the key customer requirement lists and risk management plan • Understand the techniques to setup structured communication methods • Understand the resource level of the corporation, such as talents, equipment and software, and the resource allocation methods • Understand the foundation risk assessment tools and its application methods • Understand the importance of managing the appearance and functional design modifications, and project modifications management, and its management methods • Understand the international project management standard content, such as ISO21500 • Understand the construction management and engineering modifications of international management standards, such as ISO10007 • Understand the application of computer system on project management and product development management, such as product lifecycle management systems 2. Overall management on product development projects • Analyse different stakeholders requirements, such as customers, end users, suppliers, marketing department, quality control department, and production department • Analyse the main processes of product development projects, and confirm the important processes and schedule of the project • Setup, manage and continuously improve the product development project communication mechanisms • Setup, manage and continuously improve the product engineering modification management mechanism • Manage the product development projects, including project resources, project schedule, deliverables quality, cost differences, and the expectations of various stakeholders • Regularly review the effectiveness of project management, apply the relevant knowledge management system of product development projects for product development knowledge management • Examine the possibility of application of computer systems and make recommendations to management 3. Professional handling of overall management on product development projects

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	• Carefully consider elements of safety, risk, capacity, quality, environmental protection and cost etc, carry out overall management on product development projects and also meet all aspects of requirements • During project management, prevent any misuse / misappropriation of corporate assets, corruption, fraud or extravagance etc
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Capable to manage product development projects, and apply knowledge management systems for continuous improvement • Capable to make recommendations to management on the relevant latest tools and continuous improvement matters of management on product development project
Remark	