

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

Functional Area - Product Design and Development

Title	Supervise and co-ordinate prototype manufacturing
Code	106483L4
Range	This unit of competency is applicable to each design and development departments of Manufacturing Technology Industry. Practitioners should be capable to apply conventional manual and mechanical methods and rapid prototyping technology, supervise and co-ordinate different departments to manufacture appropriate product sample in accordance with the sample requirements
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of supervise and co-ordination of product sample manufacturing</p> <ul style="list-style-type: none"> • Recognise basic manufacturing technology • Understand product sample manufacturing process • Understand the principles, procedures, characteristics and application methods of rapid prototyping technology • Understand all kinds of manual surface treatments methods such as, such as polishing, coating and plating <p>2. Supervise and co-ordinate product sample manufacturing</p> <ul style="list-style-type: none"> • Select the materials which are close to the original as required and manufacture samples • According to all kinds of requirements of sample manufacturing, plan the appearance and functional sample manufacturing methods and processes • According to the product design and production process design, arrange an appropriate manual, mechanical and rapid prototyping technology manufacturing methods, including assembly, welding, bonding, CNC machining and rapid prototyping technology • Supervise and co-ordinate all kinds of sample processing, enhance the quality of appearance and functionality of the sample • Supervise and co-ordinate the products manufactured by different departments which are valued for reference • Ensure the sample meets the originality requirements of materials, function, surface treatment and colour <p>3. Professional handling of supervise and co-ordination of product sample manufacturing</p> <ul style="list-style-type: none"> • Detailedly consider elements such as safety, risk, productivity, quality, environmental protection and cost, supervise and co-ordinate product sample manufacturing 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 the best sample manufacturing methods and processes, and improve the quality and effectiveness of the system • Capable to coordinate with all departments, supervise and co-ordinate product sample manufacturing
Remark	