

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

Functional Area - Product Manufacturing

Title	Carry out other plastic moulding and forming process
Code	106428L3
Range	This unit of competency is applicable to the production department of the corporation of plastics industry. Practitioners should be capable to carry out plastic moulding and forming process other than injection moulding, blow moulding, vacuum molding, plastic extruding and rotational moulding
Level	3
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand the relevant knowledge of other plastic moulding and forming process <ul style="list-style-type: none"> • Recognise other plastic moulding and forming process, such as machining, laser cutting and waterjet cutting • Understand principles, final effect and applications of other plastic parts processing technology • Understand the structure, application methods and safety guidelines of other plastic moulding and forming process • Understand the types, specifications and selection conditions of plastic moulding and forming process machinery • Understand the types, materials, specifications and selection conditions of the tools of plastic moulding and forming process • Understand the factors affect the technologies and techniques of other plastic moulding and forming process, such as materials selection, pre-processing handling of plastics, maintenance of machinery and inspection, post-processing handling of plastics injection parts and packaging, structures and maintenance of tools, using auxiliary equipment and environmental control • Understand the technologies and techniques of other plastic moulding and forming process, such as product design, tool-specific design, process technologies and techniques, mechanical requirements, materials application, compatibility between materials, freezing time, the application areas and restrictions • Understand the processing machinery maintenance and troubleshooting methods of other plastic moulding and forming process 2. Carry out other plastic moulding and forming process <ul style="list-style-type: none"> • Review the production efficiency of relevant plastic plastic moulding and forming process technology • In accordance with the shape and the final effects of plastic products, select the appropriate plastic moulding and forming process and apply it to the existing production lines • In accordance with engineering design, select the appropriate machinery, tools and mechanical parameters, so as to carry out the relevant plastic processing and obtain the expected final results • Carry out relevant plastic moulding and forming process • Operate relevant machinery of plastic moulding and forming process • Record the relevant technologies and techniques parameters and production records • Analyse quality problems during the process of plastic moulding and forming process • Determine and manage the performance and life of machinery and tools, preventively maintain the machinery and tools and carry out troubleshooting 3. Professional handling of other plastic moulding and forming process

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	<ul style="list-style-type: none">Follow safety guidelines and codes of practice of plastic production, in accordance with the design drawings, carry out production
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none">Capable to carry out technological analysis of plastic moulding and forming process, review the applicable technologies and techniques, the required materials and restrictions, showing the problems of plastic moulding and forming process and make improvements.
Remark	