

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

Functional Area - Product Manufacturing

Title	Carry out plastic recycling
Code	106524L4
Range	This unit of competency is applicable to the production department of the plastic industry corporation. Practitioners should be capable to specify and carry out the process of plastic recycling in shopfloor and carry out plastic recycling
Level	4
Credit	9 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of plastic recycling</p> <ul style="list-style-type: none"> <li>• Recognise the identification methods of all kinds of plastic, such as the analysis methods of density, X-ray, colour spectrum and carbon composition</li> <li>• Recognise all kinds of plastic recycling methods, such as molten regeneration and chemical reduction methods</li> <li>• Understand the characteristics and recyclable nature of all plastics</li> <li>• Understand the processes, methods, equipment and tools of mechanical plastics recycling; including plant recycling, sorting, crushing, screening for reuse and recycling</li> </ul> <p>2. Carry out plastic recycling</p> <ul style="list-style-type: none"> <li>• Identify the types and natures of plastics</li> <li>• Determine the feasibility of recycling and its proportion by the plastic properties</li> <li>• Able to operate Crushers</li> <li>• Determine the appropriate method of plastic recycling</li> <li>• Determine the product types of plastic recycling</li> <li>• Formulate a suitable mechanical circulatory flow, and select appropriate equipment and tools to meet the requirements of production and quality</li> <li>• Carry out and monitor the plastic recycling process and ensure that the plastics will not be contaminated in the entire process</li> <li>• Develop and execute plans of preventive maintenance of mechanical cycling equipment</li> </ul> <p>3. Professional handling of plastic recycling</p> <ul style="list-style-type: none"> <li>• Follow safety guidelines and related codes of practice, in accordance with the requirements of product specifications and production efficiency, carry out plastic recycling</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Capable to evaluate the proportion of plastic recycling and control the quality</li> <li>• Capable to determine the appropriate method of plastic recycling</li> </ul>
Remark	