

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

Functional Area - Product Manufacturing

Title	Plastic colouring
Code	106429L3
Range	This unit of competency is applicable to the production department of the plastics production corporation. Practitioners should be capable to carry out plastic colouring
Level	3
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand relevant knowledge of different plastic colouring technologies <ul style="list-style-type: none"> • Recognise all kinds of plastics in the markets and the identification methods • Recognise all kinds of plastics identification scientific instruments, such as the far-infrared analysis, spectral analysis and carbon composition analysis, so as to identify plastics • Understand all kinds of natures of plastic coloring and coloring methods • Understand all kinds of plastics colouring equipment and types of pigments, including toner and liquid colorants • Understand the physical and chemical solubility of the materials • Understand all kinds of colour testing methods, such as the use of pantone, light boxes and color sample (Pantone) 2. Carry out plastic testing and plastic colouring <ul style="list-style-type: none"> • Analyse plastics and carry out plastic grading and classification • Carry out general inspection of plastic colour • Communicate with raw material suppliers and formulate colour difference • Determine plastic coloring dyeability, select the appropriate colouring methods and carry out surface colouring • Select the appropriate third agencies to carry out complex plastic test 3. Professional handling of plastic colouring <ul style="list-style-type: none"> • Follow safety guidelines and related codes of practice and carry out plastic colouring
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to Identify all kinds of plastic coloring dyeability and coloring methods, carry out plastic surface colouring treatment
Remark	