

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

Functional Area - Product Manufacturing

Title	Apply foundation knowledge of mould and tooling steels
Code	106441L3
Range	This unit of competency is applicable to all corporations of Manufacturing Technology Industry. Practitioners should be capable to understand the foundation knowledge of moulds and tooling materials and also apply relevant knowledge in daily work
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of moulds and tooling steels</p> <ul style="list-style-type: none"> <li>• Understand the categories, chemical performance, physical and mechanical performance, usages and relevant processing procedures of the commonly used moulds and tooling materials</li> <li>• Recognise the characteristics and usages of different moulds and tooling steels</li> <li>• Understand all kinds of word meaning of moulds and tooling steels testing, including spectrometer/ EDS composition analysis, hardness, optical microscopy analysis, tensile and impact strength</li> <li>• Understand the international specifications and grades of moulds and tooling steels mould</li> <li>• Recognise the development of moulds and tooling steels and characteristics of new moulds and tooling steels</li> </ul> <p>2. Apply knowledge of moulds and tooling steels</p> <ul style="list-style-type: none"> <li>• Interpret the moulds and tooling steels documents, specifications and descriptions</li> <li>• identify and select right moulds and tooling steels</li> </ul> <p>3. Professional handling of applying knowledge of moulds and tooling steels</p> <ul style="list-style-type: none"> <li>• Follow safety guidelines and related codes of practice, in accordance with the requirements of technologies and techniques, product specifications and production efficiency, apply different moulds and tooling steels</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 apply foundation knowledge of mould and tooling steels in daily working areas</li> <li>• Capable to identify and select right moulds and tooling steels</li> </ul>
Remark	