

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

Functional Area - Product Manufacturing

Title	Apply foundation knowledge of metallic materials
Code	106439L3
Range	This unit of competency is applicable to all corporations of Manufacturing Technology Industry. Practitioners should be capable to understand the foundation knowledge of metal 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 metal materials</p> <ul style="list-style-type: none"> • Understand the categories, physical performance, chemical and mechanical performance, usages and relevant processing procedures of the commonly used metal materials • Recognise the characteristics and usages of different metal materials • Understand all kinds of word meaning of metal materials testing, including hardness, strength, tensile strength, impact force, plastic deformation and metal fatigue • Understand international metal specifications and representing standards • Recognise the development of metal materials and characteristics of new metal <p>2. Apply knowledge of metal materials</p> <ul style="list-style-type: none"> • Interpret the metal material documents, specifications and descriptions • Identify and select right metal materials <p>3. Professional handling of knowledge of metal materials</p> <ul style="list-style-type: none"> • Follow safety guidelines and related codes of practice, in accordance with the requirements of technologies and techniques, product specifications and production efficiency, apply different metal materials
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to apply foundation knowledge of metal materials in daily working areas • Capable to identify and select right metal materials
Remark	