

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

Functional Area - Product Manufacturing

Title	Carry out surface printing
Code	106437L3
Range	This unit of competency is applicable to the production department of the plastic industry corporation. Practitioners should be capable to carry out surface printing
Level	3
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of all kinds of surface printing</p> <ul style="list-style-type: none"> • Understand the principles, characteristics and applications of surface printing • Recognise all kinds of surface printing technologies, such as screen printing (flat or curved), transfer printing, ink jet printing, gravure printing and offset printing, digital printing, and colour laser marking and the final effect • Recognise the manufacturing methods, techniques and required equipment of surface printing • Recognise the types of printing materials • Recognise the requirements of product material and its impact on the printed material <p>2. Carry out surface printing</p> <ul style="list-style-type: none"> • Examine the printing surface, determine whether it is suitable for printing, and identify the appropriate surface printing material, make possible printing pattern and determine the number of colours of the printed patterns, material and precision • In accordance with different quality requirements, select the appropriate machinery, tools, materials (such as ink and detergent), carry out suitable surface printing for products • Examine the production efficiency of surface printing • Analyse the quality problems of surface printing and carry out improvement • Safely handle volatile organic compounds (VOC) • Determine the type of defects, prevent and fix defects • Follow safety guidelines, related codes of practice and design requirement, carry out surface printing • Carry out general preventive maintenance for tooling, equipment and auxiliary equipment <p>3. Professional handling of surface printing</p> <ul style="list-style-type: none"> • Detailedly consider elements such as safety, risk, productivity, quality, environmental protection and cost, carry out surface printing and meet all aspects of requirements
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable to identify suitable surface printing materials and make possible printing pattern • Capable to carry out surface printing • Capable to set quality standards to evaluate the surface printing of product
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