

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

Functional Area - Product Manufacturing

Title	Adjust equipment, carry out electroplating and resolve production problems
Code	106421L3
Range	This unit of competency is applicable to the production department of the corporation of metal product manufacturing industry. Practitioners should be capable understand the general knowledge of electroplating, so as to carry out electroplating and resolve production problems
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand relevant knowledge of adjusting equipment, carrying out electroplating and resolving production problems</p> <ul style="list-style-type: none"> • Understand relevant physical units and basic electrical plating of electroplating, including electrical and mechanical operations, and foundation knowledge of electrical and circuit controls • Understand the principles of the relevant steps of electroplating, including degreasing, pickling, neutralisation and washing, and know the parameters and principles of the technologies and techniques of electroplating • Understand the general method of electroplating, including hanging plating technology and barrel plating technology • Understand the composition, characteristics, effects and control methods of electroplating chemicals • Understand the effectiveness of relevant equipment and hanging fixture, including a variety of equipment with electroplating chemicals, such as if a warmer is needed, if the electroplating tank design needs an additional filters and understand the designs of all kinds of hanging fixture of products • Understand the causes, phenomena and characteristics of all kinds of defective products • Recognise the use of addition and control methods of electroplating chemicals • Understand the knowledge of safety operations of electroplating production and relevant chemicals <p>2. Carry out electroplating</p> <ul style="list-style-type: none"> • Determine whether the product is suitable for electroplating, clearly understand the different metal materials, thus carry out different electroplating methods and processes • Adjust the equipment and carry out electroplating, properly operate the electroplating chemicals of filtering, mixing, related equipment and hanging fixture, understand the entire electroplating technologies and techniques, from to complete the process from start to • Correctly control the heating and cooling parameters of electroplating chemicals and understand the electroplating technology, adjust the technologies and techniques parameters on their own, so as to make achieve the best effect of the products • Determine the product quality problems of electroplating and carry out immediate corrections <p>3 Professional handling of adjusting equipment, carrying out electroplating and resolving production problems</p> <ul style="list-style-type: none"> • Follow the relevant safety guidelines and codes of practice, in accordance with the technical requirements of electroplating and solve production problems

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Assessment Criteria	The integrated outcome requirements of this unit of competency are: <ul style="list-style-type: none">• Capable to adjust the equipment and operate the relevant technologies and techniques of electroplating independently• Capable to meet the requirements of workpiece material and products, fine-tuning the related technologies and techniques• Capable to solve the general operation problems of electroplating equipment and carry out daily maintenance of equipment
Remark	