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

Functional Area - Product Manufacturing

Title	Carry out plasma surface treatment
Code	106432L3
Range	This unit of competency is applicable to the production department of the plastics industry corporation. Practitioners should be capable to recognise all kinds of plasma surface treatment technologies and carry out plasma surface treatment
Level	3
Credit	6 (For Reference Only)
Credit Competency	 Performance Requirements Understand relevant knowledge of all kinds of plasma surface treatment technologies Recognise all kinds of principles, application and final effectiveness of plasma surface treatment technologies, such as vacuum and glow discharge Recognise general methods of plasma surface treatment, including plasma treatment of plastic surface activation and plasma treatment of plastic surface cleaning Recognise the limitations of all kinds of plasma surface treatment, applications and control methods of hydrophilic plastic surface, hydrophobic plastic surface, surface roughening of plastic materials and dust proof of silicone material etc Recognise the operation of vacuum system Understand the device structure, operation skills and functions of plasma surface treatment Understand the operation and device structure of the vacuum pump Understand the operation of the instrument of precision gas flow Understand the operation of mechanical and electrical circuits Understand the operation of mechanical and carry out evaluation and improvement Determine an appropriate methods of plasma surface treatment for products Determine the specific plasma treatment technology program in accordance with the material Apply the plasma treatment in production and sarpt using surface treatment for products Determine the appropriate methods of plasma surface treatment for products Determine the appropriate methods of plasma surface treatment for products Determine the appropriate methods of plasma surface treatment for products Determine the device treatment materials applications Operate plasma surface treatment materials applications <
	 In accordance with the plasma surface treatment technological processes, organise the production guidelines and detailed arrangements 3. Professional handling of plasma surface treatment
	 Follow safety guidelines and related codes of practice, in accordance with the requirements of technologies and techniques, product specifications and production efficiency, carry out plasma surface treatment

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Assessment Criteria	 The integrated outcome requirements of this unit of competency are: Capable to operate relevant plasma surface treatment technologies and techniques independently Capable to fine-tune the relevant technologies and techniques in accordance with the workpiece material and product requirements Capable to solve the general operation problems of the equipment of plasma surface treatment, carry out preventive maintenance and continuous improvement
Remark	