Unit of Competency

Functional Area: Manufacturing

Title	Master the Electroplating Technique for Parts of a Complete Watch
Code	104823L3
Range	This unit of competency (UoC) is applicable in the production department of timepiece manufacturing companies. It covers the abilities to master the standard and method of electroplating a complete watch, and carry out general electroplating of complete watches according to the guidelines and safety regulations.
Level	3
Credit	9 (for reference only)
Competency	Performance Requirements 1. Understand the basic knowledge of electroplating • Know about the objectives of dial treatment for timepiece products • Understand treatments and basic procedures of electroplating, e.g.: • Electroplating • Organic spray • Chemical plating • Understand the treatment procedure, conditions and important points before electroplating, e.g.: • Polishing, grinding • Different cleaning and grease-releasing materials • Understand the different electroplating procedures for different metals • Master the electroplating standard and requirements • Know about the categories of gold-plating solutions • By the PH degree of the solution • By the content of cyanide • By the valence of gold ion • Master the colour standard and features of gold-plating for a case • Know about the features of silver-plating • Vinderstand the application of pure palladium-plating or palladium alloy plating in the electroplating of timepiece • Know about the features of palladium-plating • Understand other types of electroplating • Ruthenium-plating • Ruthenium-plating • Electroplating of tin alloys • Understand the EEC nickel prohibition ordinance and its effect on timepiece electroplating • Know about the testing methods in relation to the EEC nickel prohibition ordinance and safety regulations • Master the inspection and testing for electroplated layers 2. Electroplate • Carry out general electroplating equipment • Improve the effect of electroplating equipment • Improve the effect of electroplating of a complete watch according to working guidelines and safety regulations • Master the advanced technology for treating metal dials • Know about the significance of environmental protection during the process of electroplating • Master the advanced technology for treating metal dials • Know about the significance of environmental protection during the proc
Assessment Criteria Remark	The integrated outcome requirement of this UoC is the ability to: • Carry out general electroplating of a complete watch according to working guidelines and safety regulations as well as the standards and requirement.
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