

Specification of Competency Standards of the Watch & Clock Industry

Unit of Competency

Functional Area: Manufacturing

Title	Carry out Surface Treatment of the Components of a Complete Watch
Code	104822L2
Range	This unit of competency (UoC) is applicable in timepiece manufacturing companies. It covers the abilities to carry out surface treatment of the components of a complete watch under supervision.
Level	2
Credit	9 (for reference only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Possess the knowledge of surface treatment of a complete watch and its components <ul style="list-style-type: none"> • Understand the surface treatment procedure for the metal case of a complete watch, including: <ul style="list-style-type: none"> • Buffering (Polishing) • Brushing • Sand-blasting • Paint-spraying • Electroplating • Know about the effect of surface treatment of the components of a complete watch • Understand the application of transparent lacquer and the control of its effect <ul style="list-style-type: none"> • Know about the characteristics of transparent lacquer, e.g. density and colour • Understand the application method of transparent lacquer and the control of its effect • Understand the application of colour paint and the control of its effect <ul style="list-style-type: none"> • Know about the characteristics of coloured paint, including: <ul style="list-style-type: none"> • Types of coloured paints • Principle of coloured paints and its proper application • Standardization of colours • Colour reflection • Density • Understand the correct method of effect control, including: <ul style="list-style-type: none"> • Method of testing on the colour effect made to the metal surface of a complete watch • Control of colour sample standards • Control of colour brightness standards • Know about the stability and chemical reaction made by coloured paint on a metal watch component 2. Carry out surface treatment of the components of a complete watch <ul style="list-style-type: none"> • Carry out surface treatment of the components of a complete watch under supervision according to the requirements of production/quality check 3. Exhibit professionalism <ul style="list-style-type: none"> • Carry out work duties related to the surface treatment of a complete watch and its components according to the safety guidelines and code of practice of the Occupational Safety and Health Ordinance
Assessment Criteria	<p>The integrated outcome requirements of this UoC is the ability to:</p> <ul style="list-style-type: none"> • Carry out surface treatment of the components of a complete watch under supervision according to the requirements of production/quality check.
Remark	