

# Specification of Competency Standards of the Watch & Clock Industry

## Unit of Competency

### Functional Area: Manufacturing

Title	Apply Safety Standards for Timepiece Products
Code	104821L2
Range	This unit of competency (UoC) is applicable in timepiece manufacturing companies. It covers the abilities to carry out manufacturing procedures for timepiece products under supervision according to the relevant safety standards.
Level	2
Credit	6 (for reference only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Possess knowledge of safety standards for timepiece products <ul style="list-style-type: none"> <li>• Understand the safety standards for timepiece components (exterior parts) <ul style="list-style-type: none"> <li>• Selection of materials</li> <li>• Safety of design of individual parts</li> <li>• Safety of parts after assembled</li> <li>• Safety of surface treatment</li> <li>• Nickel-free electroplating</li> <li>• Waterproof feature of case</li> <li>• Hardness of case glass</li> <li>• Paint spray adhesion on dial</li> <li>• UV reaction of dial electroplate</li> <li>• Waterproof feature of waterproof crown</li> <li>• Tensile strength of band</li> <li>• Safety of band colour</li> <li>• Torsion of metallic band</li> <li>• Functions of push-buttons of the case</li> </ul> </li> <li>• Understand a complete watch safety standards <ul style="list-style-type: none"> <li>• Crash</li> <li>• Shock</li> <li>• Artificial sweat</li> <li>• Isochronism</li> <li>• Waterproof feature</li> </ul> </li> <li>• Know about the EU RoHS (Restriction of the use of certain hazardous substances)</li> <li>• Understand the six RoHS harmful substances, including: lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr6 +), polybrominated diphenyl ethers (PBDE) and polybrominated biphenyls (PBB)</li> <li>• Understand the specifications of the EU RoHS standard/lead-free solder standard on the control of the above six harmful substances</li> <li>• Know about the EU REACH regulation (REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals)</li> <li>• Understand the main content of the REACH regulation: <ul style="list-style-type: none"> <li>• Registration</li> <li>• Evaluation</li> <li>• Authorization</li> <li>• Restriction</li> </ul> </li> </ul> </li> <li>2. Make timepiece products <ul style="list-style-type: none"> <li>• Make timepiece products under supervision according to the safety standards and code of safety for timepiece products</li> </ul> </li> <li>3. Exhibit professionalism <ul style="list-style-type: none"> <li>• Make timepiece products according to the ordinances related to dangerous goods and environmental protection</li> <li>• Engage in timepiece product manufacturing according to the safety guidelines and code of practice of the Occupational Safety and Health Ordinance</li> </ul> </li> </ol>
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> <li>• Make timepiece products under supervision according to the safety standards for timepiece products.</li> </ul>
Remark	