

**Unit of Competency**

**Functional Area: Aftersales Repair**

Title	Master the Concept of Isochronism Regulating to carry out Timepiece Repair
Code	104938L4
Range	This unit of competency (UoC) is applicable in general repair shops and aftersales repair stations for timepieces. It covers the abilities to understand the operation principle of mechanical multi-function movement and the concept of isochronism regulating to carry out timepiece repair.
Level	4
Credit	9 (for reference only)
Competency	<p>Performance Requirements</p> <p>1. Understand the operation principle of mechanical multi-function movement and the concept of isochronism regulating</p> <ul style="list-style-type: none"> <li>• Know about the definitions of “multi-function”, “additional function” and “complicated time-piece” from a technical point of view</li> <li>• Know about the functions and operation principles of mechanical movements that possess additional functions apart from hour, minute and second display: <ul style="list-style-type: none"> <li>• With self-winding function: <ul style="list-style-type: none"> <li>• Principle of winding motion driven by oscillating rotor and self-winding mechanism</li> </ul> </li> <li>• With calendar (date) display function: <ul style="list-style-type: none"> <li>• Principle of calendar mechanism driven by motion work mechanism</li> <li>• Principle of calendar mechanism adjusted directly by winding and setting mechanism</li> </ul> </li> <li>• With calendar and day display function: <ul style="list-style-type: none"> <li>• Principle of calendar and day mechanism driven by motion work mechanism</li> <li>• Principle of calendar and day mechanism adjusted directly by winding and setting mechanism</li> </ul> </li> <li>• With time alarm function <ul style="list-style-type: none"> <li>• Principle of alarm device driven by motion work mechanism</li> <li>• Principle of alarm device adjusted directly by winding and setting mechanism and the power source (winding) of the alarm device</li> </ul> </li> <li>• With international time/GMT display function <ul style="list-style-type: none"> <li>• Principle of international time display mechanism driven by gear train transmission</li> </ul> </li> <li>• With international time/GMT display function <ul style="list-style-type: none"> <li>• Principle of international time display mechanism driven by gear train transmission</li> </ul> </li> <li>• Basic principle of complicated mechanical movement with chronograph <ul style="list-style-type: none"> <li>• Operation principle of start/stop push buttons</li> <li>• Operation principle of reset push button</li> </ul> </li> </ul> </li> <li>• Master the concept of isochronism regulating <ul style="list-style-type: none"> <li>• Know about the basic concept of isochronous errors and its significance to mechanical movements <ul style="list-style-type: none"> <li>• Accuracy of movement</li> <li>• Quality assurance of movement</li> <li>• Specification of mechanical movement repairing techniques</li> </ul> </li> <li>• Master the adjustment skills for isochronous errors</li> <li>• Master the application of mechanical movement testing instrument to analyze isochronous errors</li> </ul> </li> </ul> <p>2. Carry out timepiece repair</p> <ul style="list-style-type: none"> <li>• Master the concept of isochronism regulating to carry out timepiece repair</li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Deliver aftersales service for timepieces according to the Occupational Safety and Health Ordinance and the code of practice for safety at work</li> </ul>

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Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: <ul style="list-style-type: none"><li>• Master the operation principle of mechanical multi-function movement and the concept of isochronism regulating to carry out timepiece repair.</li></ul>
Remark	