

**Unit of Competency**

**Functional Area: Aftersales Repair**

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| Title      | Master the Repairing Skills for Quartz Movement and Quartz Watch   |
| Code       | 104934L3   |
| Range      | This unit of competency (UoC) is applicable in general repair shops and aftersales repair stations for timepieces. It covers the abilities to repair quartz movements and quartz watches according to the repair procedures.   |
| Level      | 3  |
| Credit     | 9 (for reference only)   |
| Competency | <p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Understand the oil cleaning procedures for quartz movements <ul style="list-style-type: none"> <li>• Know about the basic tools to clean oil from quartz movements</li> <li>• Understand the correct steps and skills as below to disassemble and assemble a quartz movement : <ul style="list-style-type: none"> <li>• Liquid-crystal Display (LCD)</li> <li>• Light Emitting Diodes (LED)</li> </ul> </li> <li>• Master the key points in the oil cleaning procedure for both LCD and LED: <ul style="list-style-type: none"> <li>• Cleaning and treatment of LCD display</li> <li>• Cleaning and treatment of integrated circuit chip</li> <li>• Cleaning and treatment of housing</li> <li>• Cleaning and treatment of other electronic parts, coil, contact piece and buzzer</li> </ul> </li> <li>• Know about the correct steps and skills to disassemble and assemble a quartz analog movement</li> <li>• Understand the oil cleaning procedure for a quartz analog movement</li> <li>• Know about the oil cleaning procedure for a quartz analog movement with additional functions</li> <li>• Master the key points in using an oil cleaning machine as the cleaning apparatus for a quartz analog movement</li> <li>• Master other applicable oiling methods and their important points when the assistance of an oil cleaning machine is not available</li> <li>• Know about the special lubricant for the exclusive use of electronic quartz analog movement and its correct application method</li> <li>• Master the application of professional test instrument for quartz analog for trouble shooting</li> <li>• Know about the polishing tools for exterior parts</li> <li>• Master the polishing skills</li> <li>• Know the key points about safety in polishing</li> <li>• Know about the cleaning methods and treatment after polishing</li> </ul> </li> <li>2. Repair quartz movements and quartz watches <ul style="list-style-type: none"> <li>• Repair quartz movements and quartz watches in a correct way according to the specified repair procedure</li> <li>• Battery replacing procedures for quartz movement <ul style="list-style-type: none"> <li>• Understand the correct matching of battery and quartz movement</li> <li>• Master the correct way of opening the back case</li> <li>• Master the correct way of replacing battery</li> <li>• The correct way and safety tips for locking/closing the back case</li> </ul> </li> <li>• Master quality assurance for repaired quartz movement <ul style="list-style-type: none"> <li>• Accuracy</li> <li>• Functional reliability</li> <li>• Exterior</li> </ul> </li> <li>• Master quality assurance for polished exterior parts</li> </ul> </li> <li>3. Exhibit professionalism <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> </li> </ol> |

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| Assessment<br>Criteria | The integrated outcome requirements of this UoC are the abilities to: <ul style="list-style-type: none"><li>• Carry out correctly the oil cleaning procedure for quartz movements; and</li><li>• Repair quartz movements and quartz watches in a correct way according to the specified repair procedures.</li></ul> |
| Remark                 |  |