

Specification of Competency Standards of the Watch & Clock Industry

Unit of Competency

Functional Area: Design

Title	Master the Mechanism and Functions of a Mechanical Multi-function Movement
Code	104850L4
Range	This unit of competency (UoC) is applicable in the design department of timepiece companies. It covers the abilities to understand the system and functions of a mechanical multi-function movement, and supervise subordinates to carry out timepiece design duties.
Level	4
Credit	6 (for reference only)
Competency	Performance Requirements - Know about the operating principles, system structure and functions of a mechanical multi-function movement - Know about the definitions of “multi-function”, “additional function” and “complicated timepiece” from a technical point of view - Know about the functions and operation principles of mechanical movements that possess additional functions apart from hour, minute and second display - With self-winding function - Principle of winding motion driven by oscillating rotor and self-winding mechanism - With calendar (date) display function - Principle of calendar mechanism driven by motion work mechanism - Principle of calendar mechanism adjusted directly by winding and setting mechanism - With calendar and day display function - Principle of calendar and day mechanism driven by motion work mechanism - Principle of calendar and day mechanism adjusted directly by winding and setting mechanism - With time alarm function - Principle of alarm device driven by motion work mechanism - Principle of alarm device adjusted directly by winding and setting mechanism and the power source (winding) of the alarm device - With international time/GMT display function - Principle of international time display mechanism driven by gear train transmission - Basic principle of complicated mechanical movement with chronograph - Operation principle of start/stop push buttons - Operation principle of reset push button - Moon phase function - Flyback display - Understand the quality features and key points of mechanical multi-function movements of different origins - Swiss Made - Germany Made - Japan Made - China Made - Carry out timepiece design - Master the structure and functions of a mechanical multi-function movement to carry out timepiece product design duties - Supervise subordinates to carry out duties related to timepiece design - Exhibit professionalism - Respect intellectual property to prevent plagiarization, so as to avoid individual person and the organization to fall into the trap of infringement
Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: - Understand the structure and functions of a mechanical multi-function movement system and apply them to timepiece design; and - Supervise subordinates to carry out duties related to timepiece design.
Remark	