

Specification of Competency Standards of the Watch & Clock Industry

Unit of Competency

Functional Area: Design

Title	Apply the Structural Principles and Functions of Basic Mechanical Movements
Code	104842L3
Range	This unit of competency (UoC) is applicable in the design department of timepiece companies. It covers the abilities to understand the structure and functions of the basic mechanical movement system, and integrate the theory of the mechanical movement structure and functions in timepiece design.
Level	3
Credit	6 (for reference only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none">1. Know about the structural principles and functions of basic mechanical movements<ul style="list-style-type: none">• Understand the emergence, background and brief history of development of mechanical time instruments or apparatus• Understand the basic operation principles of a mechanical movement• Understand the system titles, functions of components and operation features of a basic mechanical movement, e.g.:<ul style="list-style-type: none">• Winding and setting mechanism• Motor mechanism• Power transmission mechanism• Escapement• Regulating mechanism• Motor work mechanism• Know about the operation principles and features of the special categories of mechanical movements, e.g.:<ul style="list-style-type: none">• Pin pallet• Co-axial• Cylinder escapement• Know about the quality and features and compare mechanical movement systems of different origins, including Japanese, Chinese and Swiss movements2. Carry out mechanical timepiece design<ul style="list-style-type: none">• Carry out mechanical timepiece design according to customer requirements3. Exhibit professionalism<ul style="list-style-type: none">• Respect intellectual property to prevent plagiarization, so as to avoid individual person and the organization to fall into the trap of infringement when carrying out mechanical timepiece design
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none">• Understand the structure and functions of the basic mechanical movement system and carry out duties related to mechanical timepiece design.
Remark	