

**Specification of Competency Standards for the Watch & Clock Industry**

**Unit of Competency**

1. Title	Understand the Principles and the Functional Structure of a Complete Watch and a Quartz Movement
2. Code	WCZZDN202A
3. Level	2
4. Credit	5
5. Competency	<p align="center"><u>Performance Requirements</u></p> <p>5.1 Know about the structure of a Complete Watch</p> <ul style="list-style-type: none"> <li>◆ Master the essential assembling parts of a Complete Watch, such as: <ul style="list-style-type: none"> <li>• Case</li> <li>• Dial</li> <li>• Strap/ bracelet</li> </ul> </li> <li>◆ Know about the structural differences between watches of different origins and their different functions, including: <ul style="list-style-type: none"> <li>• Water-proof function</li> <li>• Anti-vibration function</li> <li>• Anti-magnetic function</li> </ul> </li> </ul> <p>5.2 Master the assembling principle of a Complete Watch</p> <ul style="list-style-type: none"> <li>◆ Know about the selection of proper tools and correct method of application in different assembling process</li> <li>◆ Know about the necessary steps and main points of assembling certain parts before a Complete Watch is assembled</li> <li>◆ Know about the various kinds of inspections to be taken after a Complete Watch is assembled. For example: <ul style="list-style-type: none"> <li>• Condition of cleanliness</li> <li>• Levelling of hands</li> <li>• Operation of functions</li> </ul> </li> </ul>

	<p>5.3 Know about the operation principle of a quartz movement</p> <ul style="list-style-type: none"> <li>◆ Understand the brief development history of a battery-driven movement</li> <li>◆ Know about the main parts of a liquid crystal display module and its structure</li> <li>◆ Know about the basic operation principle of a liquid crystal display module and the operation of some of its additional functions</li> <li>◆ Master the main system, components and structure of an analogue quartz movement</li> <li>◆ Master the basic operation principle of an analogue quartz movement and the operation of its date/calendar display</li> <li>◆ Know about the operation principle of an analogue quartz movement with chronographic function</li> <li>◆ Know about the basic structures and functioning of batteries</li> <li>◆ Know about the various categories of batteries and the interchangeability of batteries with different origins or from different suppliers</li> <li>◆ Know about the specific function of an integrated circuit board of a quartz movement</li> <li>◆ Know about the key points for the maintenance of a quartz movement</li> </ul> <p>5.4 Assemble and test general quartz watches</p> <ul style="list-style-type: none"> <li>◆ Capable of assembling and testing general quartz watches correctly</li> </ul>
6. Range	In the design or maintenance department of Timepiece companies, understand the principle, operation and characteristics of an analogue quartz movement, and capable of assembling timepieces according to the guidelines.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) capable of assembling and testing quartz watches correctly according to the guidelines and based on the principle of the analogue quartz movement.

8. Remarks	The credit value of this unit of competency is set on the presumption that the learners already have basic knowledge of the structure and principle of a Complete Watch.
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