

Specification of Competency Standards for the Watch & Clock Industry

Unit of Competency

1. Title	Know about Computer-Aided Design/Manufacturing/Engineering and Their Application on Producing Timepiece Parts
2. Code	WCZZHM201A
3. Level	2
4. Credit	9
5. Competency	<p align="center"><u>Performance Requirements</u></p> <p>5.1 Master the application of Computer-aided software</p> <ul style="list-style-type: none"> ◆ Capable of mastering the basic instructions of two-dimension and three-dimension design and manufacturing system of computer-aided softwares ◆ Set up a basic engineering drawing and its dimensioning ◆ Capable of designing solid model on three dimensional structure and curved surface ◆ Capable of designing substantive model and featured model ◆ Master the setting of curve-surface model and parts assembling <p>5.2 Master cutting tool path in the application of Computer Aided Manufacturing</p> <ul style="list-style-type: none"> ◆ Capable of mastering the use of machining centers in defining the axis and choosing the tools ◆ Capable of mastering machining including the means and geometric patterns ◆ Capable of mastering changes of cutting tool path and their post-process <p>5.3 Employ computer-aided design/manufacturing</p> <ul style="list-style-type: none"> ◆ Employ computer-aided design/manufacturing software to design Timepiece parts

6. Range	In Timepiece factories, capable of employing computer-aided design/manufacturing/engineering softwares for simple design/manufacturing of timepieces, which is only limited to Timepiece parts such as dial, case and band, with the exception of watch movement.
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (i) capable of employing computer-aided design/manufacturing/engineering softwares for the basic design/manufacturing of timepieces.
8. Remarks	The credit value of this unit of competency is set on the presumption that the learners already have basic computer knowledge.