

Specification of Competency Standards of the Watch & Clock Industry

Unit of Competency

Functional Area: Design

Title	Apply Three-dimensional Computer Scanning to Timepiece Design
Code	104855L4
Range	This unit of competency (UoC) is applicable in the design department of timepiece companies. It covers the abilities to apply three-dimensional computer scanning technique to timepiece design.
Level	4
Credit	3 (for reference only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none">1. Know about 3D scanning<ul style="list-style-type: none">• Know about the application of three-dimensional scanning<ul style="list-style-type: none">• Point cloud• Free form surface• Reverse engineering2. Apply three-dimensional computer scanning to timepiece design<ul style="list-style-type: none">• Master the operation and application of three-dimensional scanning equipment and software, including:<ul style="list-style-type: none">• Real object scanning to form point cloud• Construction of point cloud and line features• Object surface formation• Object instantiation• 3D digital measurement• Data compilation• Mould making3. 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
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none">• Master the operation and application of three-dimensional scanning equipment and software when carrying out timepiece design.
Remark	