Unit of Competency

Functional Area: Product Management

Title	Apply Technologies Relevant to the Development of Timepiece Products
Code	104871L3
Range	This unit of competency (UoC) is applicable in the research and development department of timepiece companies. It covers the abilities to master and apply modern technologies for the development of timepiece products, so as to facilitate product development or refine job duties relevant to information gathering, analysis and tests.
Level	3
Credit	6 (for reference only)
Competency	Performance Requirements 1. Understand the technologies relevant to the development of timepiece products • Understand the usage and safety standards of basic technologies relevant to the development of timepiece products • Characteristics, application, development and improvement of material technology • Production technologies • The pros and cons, application and effect, and the development and improvement of timepiece production technologies • Understand the characteristics of conventional technologies and modern technologies applied to timepiece products • Supplementary technologies such as computer-aided design, computer-aided analysis and different testing technologies • International safety standards for timepiece materials and finished products 2. Apply technologies relevant to the development of timepiece products • Employ the following technologies to facilitate the development of timepiece products or refine job duties relevant to information gathering, analysis and tests • Material technology • Choose materials and introduce improved or newly developed materials to develop new products • Control safety standards for materials • Production technologies • Employ production technologies to improve or develop new products • Employ suitable technologies for the purposes of information gathering, analysis and deduction to facilitate product development • Supplementary technologies for product research and development • Gather information and analyze supplementary technologies • Employ relevant supplementary technologies, such as: computer-aided design, computer-aided analysis, rapid prototyping and different testing technologies for the research and development of timepiece products • Control safety standards for finished products 3. Exhibit professionalism • Ensure that the timepiece materials/finished products/technologies comply with international safety standards • Respect intellectual property to prevent plagiarization in product development process, so as to avoid individual person and the organization to fall into the trap of infringement
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: • Master the technology relevant to the development of timepiece products, such as: material technology, manufacturing technology and supplementary technologies for product research and development, so as to facilitate product development or refine job duties relevant to information gathering, analysis and test.
Remark	