

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Research and Product Development

Title	Apply technologies related to jewellery products
Code	108907L3
Range	This unit of competency is applicable to practitioners responsible for research and product development in the jewellery industry. Practitioners should be capable of making judgment. They should be able to master the modern technologies related to the development of jewellery products and their application methods, so as to facilitate product development or refine job duties related to information collection, analysis and testing.
Level	3
Credit	6
Competency	<p>Performance Requirements</p> <p>1. Know about the technologies related to the development of jewellery products</p> <ul style="list-style-type: none"> • Know about the modern technologies related to the development of jewellery products and their application methods <p>2. Apply technologies related to the development of jewellery products</p> <ul style="list-style-type: none"> • Employ relevant technologies to facilitate the development of jewellery products or refine job duties related to information collection, analysis and testing <ul style="list-style-type: none"> ○ Materials technology <ul style="list-style-type: none"> ▪ Make suitable choice of materials and introduce improved or newly developed materials to develop new products ○ Manufacturing technology <ul style="list-style-type: none"> ▪ Employ appropriate manufacturing technology to improve or develop new products ▪ Employ suitable technologies for the purposes of information collection, analysis and deduction to facilitate product development ○ Supplementary technologies for product research and development <ul style="list-style-type: none"> ▪ Gather information and analyze supplementary technologies ▪ Employ relevant supplementary technologies, such as: <ul style="list-style-type: none"> ▪ Computer-aided design ▪ Computer-aided analysis ▪ Rapid prototyping ▪ 3-D scanner operation ▪ Big data ▪ Artificial intelligence ○ Control of safety standards for jewellery products <p>3. Professionalism</p> <ul style="list-style-type: none"> • Ensure that the jewellery materials/finished products/techniques developed meet international safety standards • Respect intellectual property and avoid plagiarism, preventing individuals and the organization from falling into the trap of infringement of intellectual property rights when assisting in product development
Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> • Able to master the technologies related to the development of jewellery products, such as materials technology, manufacturing technology and supplementary technologies for

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Remark	