

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Technology Support

Title	Formulate technological research plans for jewellery products
Code	108978L6
Range	This unit of competency is applicable to decision-makers responsible for technological research and development of jewellery in the jewellery industry. Practitioners should be capable of making careful analysis and judgments. They should be able to conduct topical research on jewellery products or related subjects in accordance with the direction of future technological development. They should also be able to evaluate and integrate the research results to develop the research into scientific research and development projects, so as to ultimately achieve the industrial function of jewellery products. This unit of competency is applicable to industry-related duties such as design, product development, production, repair and maintenance, operational management, quality management, marketing and sales, and environmental protection.
Level	6
Credit	9
Competency	<p>Performance Requirements</p> <p>1. Know about the innovative ideas and concepts of technological research plans for jewellery products</p> <ul style="list-style-type: none"> • Know about the concepts and innovative ideas of the technological research and development projects for the jewellery industry • Understand the overall technological support for jewellery products and the development of the areas of research and development to obtain relevant data to support the innovative ideas and concepts of the technological research and development projects • Convert the innovative ideas and concepts into scientific research and development projects, so as to ultimately achieve the industrial function of jewellery products <p>2. Formulate the technological research plans for jewellery products</p> <ul style="list-style-type: none"> • Formulate the technological research plans for jewellery products <ul style="list-style-type: none"> ○ Set objectives for the technological research projects for jewellery products <ul style="list-style-type: none"> ▪ Formulate new strategies to cope with the transformation of new technologies ▪ Master the development of future technology and establish the development direction ○ Set objectives and standards for the technological research plans ○ Allocate resources according to the needs of the technological research plans ○ Design and apply suitable research methods ○ Lead subordinate staff to conduct research, employ advanced technology or carry out relevant specialized activities ○ Write technological research reports on jewellery ○ Set the standards for the projects and conduct regular evaluation • Establish the jewellery industry as a high value-added industry • Develop innovative technological research plans to drive sustainable development in the industry • Technological research projects can ultimately be recognised and employed by the industry <p>3. Professionalism</p>

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	<ul style="list-style-type: none">• Avoid plagiarism when formulating technological research plans for jewellery products to prevent individuals and the organization from falling into the trap of infringement of intellectual property rights
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none">• Able to formulate technological research plans for jewellery products according to the direction of future technological development; and• Convert the innovative ideas and concepts of jewellery products into scientific research projects, so as to ultimately achieve the industrial function of jewellery products.
Remark	