

Specification of Competency Standards
for the Jewellery Industry
Unit of Competency

Functional Area - Research and Product Development

Title	Apply various kinds of jewellery processing techniques
Code	108909L4
Range	This unit of competency is applicable to practitioners who work in jewellery companies or worksites. They should be capable of mastering various kinds of jewellery processing techniques independently, and making product prototypes according to the design requirements to serve as a reference for product development.
Level	4
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Know about the techniques of forming, assembling and processing in the later stage of manufacturing, and relevant international safety standards and intellectual property</p> <ul style="list-style-type: none"> • Know about the forming techniques of jewellery products <ul style="list-style-type: none"> ○ The forming methods of metal plates/bars, such as: <ul style="list-style-type: none"> ▪ Sawing and jabbing ▪ Hammering ▪ Bending ▪ Forging ○ Prototype making <ul style="list-style-type: none"> ▪ Handmade/computer wax prototype ▪ Handmade silver prototype ▪ Rapid prototyping ○ Jewellery casting methods <ul style="list-style-type: none"> ▪ Cuttlebone casting ▪ Low melting point alloy casting ▪ Centrifugal lost wax casting ▪ Vacuum lost wax casting ○ The forming methods of other materials, such as: <ul style="list-style-type: none"> ▪ Leather ▪ Plastic ▪ Cloth • Know about the assembling techniques of jewellery products <ul style="list-style-type: none"> ○ The assembling methods of various kinds of metal pieces, such as: <ul style="list-style-type: none"> ▪ Interlocking ▪ Snap-fit ▪ Snap ring ▪ Retaining ring ▪ Welding ○ The setting methods of various kinds of gemstones, such as: <ul style="list-style-type: none"> ▪ Prong setting ▪ Bazel setting ▪ Pavé/Micropavé setting ▪ Channel setting ▪ Micro setting ○ The assembling methods of other materials, such as: <ul style="list-style-type: none"> ▪ Wood ▪ Plastic ▪ Cloth

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	<ul style="list-style-type: none"> • Know about the techniques and work procedures in the later stage of jewellery manufacturing, such as: <ul style="list-style-type: none"> ○ Engraving ○ Etching ○ Brushing ○ Sandblasting ○ Sanding/Polishing ○ Electroplating ○ Dyeing • Know about the relevant international safety standards for jewellery processing techniques and the importance of intellectual property <p>2. Apply jewellery processing techniques</p> <ul style="list-style-type: none"> • Employ various kinds of jewellery processing techniques proficiently to make product prototypes according to the design requirements to serve as a reference for product development • Know about the standard requirements of various kinds of processing techniques, and monitor and ensure that the prototypes for product development meet the standard requirements <p>3. Professionalism</p> <ul style="list-style-type: none"> • Ensure that the jewellery materials/prototypes/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 requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Able to master various kinds of jewellery processing techniques independently, and make product prototypes according to the design requirements to serve as a reference for product development; and • Monitor and ensure that the prototypes for product development meet the standard requirements.
Remark	