

Specification of Competency Standards
for the Fashion Industry
Unit of Competency

Functional Area - Material Development

Title	Evaluate technical viability of new materials
Code	110267L5
Range	Evaluate the viability of the new material project from the technical perspective. This applies to individuals who are required to determine if the new materials are producible and can perform to its requirements.
Level	5
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Knowledge in the subject area</p> <p style="padding-left: 40px;">Be able to</p> <ul style="list-style-type: none"> • apply a range of specialised methods in developing a feasibility study • interpret the concept and technological requirements for producing the new materials • plan a system for producing new materials • analyse the key factors that would affect the effectiveness and efficiency of a production system • critically review the resources needed for producing the materials <p>2. Application and process</p> <p style="padding-left: 40px;">Be able to</p> <ul style="list-style-type: none"> • analyse the performance requirements and specifications of the new materials • review the material performance to check if it can perform to its requirements • develop the system for producing the new materials • determine the resources requirement (e.g. raw material, manpower) for producing the new materials • assess the technical investment that has to be in place to ensure that the technical capacity of the organisation could produce the new materials (e.g. acquisition of new facilities, training of new skills) • determine technical barriers that may hinder the new material project (e.g. availability of the required raw materials, facilities and vendors) • assess the safety and environmental factors of the production system • evaluate the practicability of the project by taking into consideration of all technical factors • make recommendations for further action <p>3. Exhibit professionalism</p> <p style="padding-left: 40px;">Be able to</p> <ul style="list-style-type: none"> • have insight into latest trend of new material development • collect feedback from the stakeholders and include their views in determining the project feasibility • make recommendations based on facts and figures
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to accomplish:</p> <ul style="list-style-type: none"> • Evaluating the technical viability of the new material projects in order to determine the project feasibility and make recommendation.
Remark	