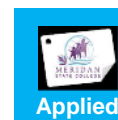


Industrial Technology Skills

Applied senior subject - ISK (possible 4 QCE credits)



Industrial Technology Skills focuses on the practices and processes required to manufacture products in a variety of industries.

Students understand industry practices; interpret specifications, including technical information and drawings; demonstrate and apply safe, practical production processes with hand/power tools and machinery; communicate using oral, written and graphical modes; organise, calculate and plan production processes; and evaluate the products they create using predefined specifications.

Students develop transferable skills by engaging in manufacturing tasks that relate to business and industry, and that promote adaptable, competent, self-motivated and safe individuals who can work with colleagues to solve problems and complete practical work.

Pathways

A course of study in Industrial Technology Skills can establish a basis for further education and employment in manufacturing industries. Employment opportunities may

be found in the industry areas of manufacturing and furnishing.

Objectives

By the conclusion of the course of study, students should:

- describe industry practices in manufacturing tasks
- demonstrate fundamental production skills
- interpret drawings and technical information
- analyse manufacturing tasks to organise materials and resources
- select and apply production skills and procedures in manufacturing tasks
- use visual representations and language conventions and features to communicate for particular purposes
- plan and adapt production processes
- create products from specifications
- evaluate industry practices, production processes and products, and make recommendations.

Structure

The Industrial Technology Skills course is designed around:

- core topics, which are integrated throughout the course
- elective topics, organised in industry areas, and manufacturing tasks related to the chosen electives.

Core topics	Industry area	Elective topics
<ul style="list-style-type: none">• Industry practices• Production processes	Furnishing	<ul style="list-style-type: none">• Cabinet-making• Furniture finishing• Furniture-making

Assessment

Assessment in this subject includes practical and theoretical tasks, both which must be completed to complete this course. Students will be assessed using a variety of methods including:

- Practical projects
- Short and extended written responses
- Multimodal presentations

Students will experience and develop a range of practical skills in furniture making. Topics include:

- Coffee table
- Dartboard carcass construction
- Mirror frame

Students who successfully complete Semester 1 and 2 in Industrial Skills (Furnishings) will be invited to undertake the Certificate I Furnishings in Year 12.

Additional Requirements

Study Requirements	Special Requirements
Students are expected to complete three lessons face to face, as well as attend tutorial time to access specialist equipment as and when required. Students will need to ensure they are following teacher advice regarding timelines and additional attendance at tutorials to complete set work	Whilst in the workshops, safety glasses, protective aprons and enclosed leather shoes must be worn at all times. Furthermore, all long hair must be tied back or enclosed in hair nets