

INDUSTRIAL TECHNOLOGY SKILLS

WHAT TYPE OF SUBJECT IS INDUSTRIAL TECHNOLOGY SKILLS?

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 aero skills, automotive, building and construction, engineering, furnishing, industrial graphics and plastics.

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
- recognise and implement appropriate industry standard safety procedures during fabrication and production



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 |
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| Industry Practices Production Processes | Building & Construction Engineering Furnishing | Carpentry Welding & Fabrication Cabinet-Making Furniture-Making |

ASSESSMENT

In Units 1 and 2, all assessment is formative. However, the assessment in Units 1 and 2 will model that which students will encounter in Units 3 and 4. In Units 3 and 4 students complete four summative assessments. The results from each of the assessments are added together to provide a subject score out of 100. Students will also receive an overall subject result (A – E).

| Project | Practical Demonstration | Examination |
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| A response to a single task, situation and/or scenario A project consists of a product component and at least one of the following components: • written: 500–900 words • spoken: 2½–3½ minutes • multimodal - non- presentation: 8 A4 pages max (or equivalent) presentation: 3–6 minutes • product: continuous class time | A task that assesses the practical application of a specific set of teacher- identified production skills and procedures Students demonstrate production skills and procedures in class under teacher supervision | A response that answers a number of provided questions, scenarios and/or problems • 60–90 minutes • 50–250 words per item |