

## Industrial Technology – Metal and Engineering Technologies

2 units for each of Preliminary and HSC

Board Developed Course

Exclusions: Industrial Technology – Timber Products and Furniture Technologies

### Course Description:

Industrial Technology at Stage 6 will develop a student's knowledge and understanding of a selected industry and its related technologies highlighting the importance of design, management and production through practical experiences.

Industrial Technology Stage 6 consists of project work and an industry study that will develop a broad range of skills and knowledge related to the focus area chosen for the course.

Students spend most of the HSC year completing their own Major Projects.

### Main Topics Covered:

#### Preliminary Course

The following sections are taught in relation to the relevant focus area:

- Industry Study – structural, technical, environmental and sociological, personnel, Occupational Health and Safety
- Design – elements and principles, types of design, quality, influences affecting design
- Management and Communication – development of practical projects; research, analysis and evaluation; skills in managing a project and developing and presenting a management folio; computer-based technologies
- Production – display a range of skills through the construction of a number of projects
- Industry Related Manufacturing Technology – understanding of a range of materials, processes, tools and equipment, machinery and technologies

#### HSC Course

The following sections are taught in relation to the relevant focus area through the development of a Major Project (60%) and a study of the relevant industry:

- Industry Study
- Major Project
  - Design, Management and Communication
  - Production
- Industry Related Manufacturing Technology

Refer to student assessment schedule for assessment tasks and breakdown of marks.

HSC Mark based on **40% HSC Exam and 60% Major Work and Folio**

### Particular Course Requirements

In the Preliminary course, students must design, develop and construct several projects. Each project will include a management folio. Each project may emphasise different areas of the preliminary course content. Students also undertake the study of an individual business within a focus area industry.

In the HSC course, students design, develop and construct a Major Project with a management folio. They will also study the overall industry related to the specific focus area industry.

**Students can only study ONE Industrial Technology subject.**

**Solid leather enclosed shoes are mandatory.**