

Course: *INDUSTRIAL TECHNOLOGY – Metals and Engineering*



2 Units for each of Preliminary and HSC Board Developed Course

Why study Metals and Engineering?

If you like to :

- Work with metals to create projects use a range of workshop machinery and hand tools from Welding machines and Sheet metal benders to lathes and Laser –cutters, then this is the course for you.
- Engineer solutions to practical problems, but do not want to get into trigonometry and materials chemistry, then this is the course for you.
- Learn metalworking skills that can help launch you into a trade such as plumbing, fitting and machining, automotive engineering or boiler- making, then this is course for you!

Course Description:

Industrial Technology (Stage 6) consists of project work and Industry study that develop a broad range of skills and knowledge related to the focus area chosen. It also introduces students to a range of industrial processes and practices. The course allocates considerable time to the development of practical skills and knowledge in the chosen focus area through the making of practical projects. The construction of a major project in Year 12 contributes 60% of HSC marks in this course.

Exclusions: you may only study one Industrial Technology subject for the HSC.

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 and Management – designing, drawing, computer applications, project management.
- Workplace Communication – literacy, calculations, graphics.
- Industry Specific Content and Production

HSC Course

The following sections are taught in relation to the relevant focus area through the development of **a Major project and a study of the relevant industry:**

- Industry Study
- Design, Management and Communication
- Production
- Industry related manufacturing technology

Particular Course Requirements:

Preliminary course – students must design, develop and construct a number of projects (at least one group project). Each project must include a management folio. Students also undertake the study of an individual business within the Metals and Engineering industry.

HSC course – students must design, develop and construct a major project with a management folio. They also undertake a study of the overall industry related to Metals and Engineering.