



Design and Technologies (DAT) – Year 10

Subject Outline:

The DAT course is designed to introduce students to a variety of metal fabrication, fitting, machining, sheet metal, and the related theory in preparation for Engineering Skills in senior school. There is a strong emphasis on safety and skill development in workshops as well as the use of hand tools and machines to manufacture projects. Students can expect to be in the workshops for a minimum of 2 lessons a week and 1 lesson may be spent in the classroom completing related theory.

It is mandatory that all students complete the OnGuard Safety Modules and Workshop inductions before they can commence practical activities in workshops.

Course Content:

	Description
Projects	A wide variety of projects will be manufactured in this course. This may include a selection of items from the following list (but not limited to): small toolbox/carry all, nut cracker, drill gauge, sliding bevel, toy (canon)

Assessment Outline:

Students will complete a variety of assessment tasks relating to the different areas of the Design & Technology course. All assessment tasks have a practical and theory component which must be completed.

Learning Pathways:

Year 11/12 Subject	General/Applied /Other	Potential QCE Points	Recommended
Engineering Skills	Applied	4	No prerequisite
Industrial Graphics Skills	Applied	4	No prerequisite

Career Pathways:

The course provides an advantage to students seeking school-based apprenticeships and traineeships. These apprenticeships and traineeships are a way of providing a very direct introduction or link to careers in the metal engineering industry, for example, mining maintenance, boat building, plant construction, rural maintenance, petroleum and gas industries, structural and general engineering, boilermaker, welder/fabricator, fitter and turner, metal machinist.

Specific Requirements:

Students need to adhere to all workplace health and safety requirements, use correctly personal protective equipment (PPE) in line with the ITD workshop safety process.

Student **MUST** wear correct clothing in the workshop at all times, this includes leather shoes (prefer steel cap boots, but not mandatory).

Approximate Cost: \$50