# Design and Technologies  (DAT) – Year 10

## Subject Outline:

The emphasis of this course is to give students a wide variety of experiences in the areas of fabrication (welding), fitting, machining, sheet metal, workshop graphics and the related theory. Using hand tools and machines to manufacture projects is the core requirement of this course. Workshop safety is an important part of all 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.

## Course Content:

|  | Description |
|---|---|
| **Projects** | A wide variety of projects can be manufactured in this course. This may include a selection of items from the following list: nut cracker, toolbox, sliding bevel, wall bracket, centre square, garden fork, bling thing. |

## Assessment Outline:

Students will complete a number of major metal projects, related theory and Design assignments during the course.

## Learning Pathways:

| Year 11/12 Subject | General/Applied /Other | Potential QCE Points | Recommended |
|---|---|---|---|
| Engineering Skills | Applied | 4 | No prerequisite |
| Building and Construction Skills | Applied | 4 | No prerequisite |
| Industrial Graphics Skills | Applied | 4 | No prerequisite |
| Furnishing Skills | Applied | 4 | No prerequisite |
| Design | General | 4 | C or better in Year 10 English and Mathematics |

## 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:

There are no specific conditions but the student needs to have a genuine interest in working with hand and power tools. A pair of leather shoes is necessary to comply with Workplace Health & Safety requirements.

## Approximate Cost: $50