

AEROSKILLS STUDIES

Queensland Studies Authority

STATUS

Authority-Registered subject (6089). Does not contribute towards Overall Position.

Four (4) semesters of Sound Achievement contributes four (4) credits towards Queensland Certificate of Education (QCE).

KEY ELEMENTS IN AEROSKILLS STUDIES COURSE

Introduction to the aircraft industry

- Safety in the aircraft industry workplace
- Basic aerodynamics
- Selection and application of hand and power tools
- Maintenance practices
- Basic aircraft hardware
- Basic aeroplane structures and materials
- Propulsion systems
- Propeller fundamentals
- Basic electrics and electronics

OVERVIEW

This program aims to provide the students with an introduction to the principles of flight and an understanding of an aerospace working environment.

Students will use machines and hand tools to complete projects in a diverse range of flight related projects. Students will learn how to fly remote controlled electric powered planes on the school oval, firstly by refining their skills on a computer flight simulator program. Students will also learn how to use the vinyl cutter, computer controlled lathe, brazing and soft soldering equipment and learn basic sheet metal fabrication.

Students may use our Flight Simulation facility to aid in learning the different aspects of the course content.

Projects may include:

- Rubber band indoor planes
- Catapult gliders
- Pneumatic powered rockets
- Chuck gliders
- Propeller making & testing
- Laser cutting projects
- Remote control planes
- Remote control/storage box (sheet metal)