

## AGRICULTURAL SYSTEMS (AGR315117)

### PROJECT FOLIO

#### GENERAL COMMENTS

Students must address all the elements being assessed within each criterion when undertaking their external work requirements in order to achieve the higher ratings.

The Systems Thinking Tools should be applied in both the Engineering Design Solution and the Case study.

Referencing protocols must be adhered to. (Note the TASC Guide to Authenticity and Academic Integrity.)

The Harvard author/date referencing system should be used in Agricultural Systems.

#### SECTION A – ENGINEERING DESIGN SOLUTION PROJECT FOLIO

The folios provided a broad range of solutions to agricultural problems. Students demonstrated ability to think laterally, and came up with excellent innovations.

##### Criterion 6

To address Criterion 6 fully, students need to:

- Show the development of new ideas through ongoing research.
- Ensure that adequate research is undertaken to outline and describe current innovations (i.e. the work of others) in the area being investigated.

##### Criterion 8

Careful choice of project is essential as the idea needs to be tested and, therefore, the solution will ideally be built. Students who performed well in this criterion built, tested and evaluated their solutions.

##### Criterion 9

Students should ensure that they show their understanding and benefits of emerging technologies.

#### SECTION B – AGRIBUSINESS CASE STUDY

Farm case studies demonstrated an excellent cross-section of Tasmanian businesses. It is important that additional resources are used beyond the business to provide background of the industry and factors that influence it.

##### Criterion 2

The best projects gave a thorough environmental analysis of the businesses they were discussing. Careful consideration of both the impacts of the environment upon the business, and the impact of the business upon the environment should be included.

### **Criterion 5**

Critical analysis of businesses and decision-making principles is necessary to achieve the highest ratings. It is important for the student to seek additional background information from sources other than the business operator to give a balanced and objective view.

It is important to address the impacts of government upon your chosen business.

### **Criteria 9**

Students needed to address the issues associated with water use, storage and trading in greater detail.