

# Agricultural Practices - Animal and Plant studies 2019

Study plan

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## Section 1: School statement

<b>School:</b>	Queensland Curriculum and Assessment Authority
<b>Subject code:</b>	6400
<b>Combined class:</b>	No
<b>School contact:</b>	SEO
<b>Phone:</b>	(07) 3864 0375
<b>Email:</b>	seo@qcaa.qld.edu.au

## Section 2: Course and assessment overview

Agricultural Practices is a four-unit course of study.

Units 1 and 2 of the course are designed to allow students to begin their engagement with the course content, i.e. the knowledge, understanding and skills of the subject. Course content, learning experiences and assessment increase in complexity across the four units as students develop greater independence as learners.

Units 3 and 4 consolidate student learning.

## QCAA approval

QCAA officer:

Date:

Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
1	<b>Module 1: Tractor operations</b> This module covers operational and maintenance procedures (e.g. checking, cleaning and storing tractors) as well as workplace health and safety procedures for tractor operations.	15	<ul style="list-style-type: none"> <li>E7.1 Prepare basic machinery for use</li> <li>E7.2 Operate basic machinery</li> <li>E7.3 Check, clean and store basic machinery</li> </ul>	<b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul>	1	<b>Collection of work</b> Complete a series of tasks based on tractor operations. <ul style="list-style-type: none"> <li>Written component Report on workplace health and safety procedures. 150–250 words</li> <li>Performance component Demonstration of operating procedures.</li> <li>Spoken component Interview on maintenance procedures. 1.0–2.0 minutes</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> </ul>

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Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
1	<p><b>Module 2: Animal identification and health</b></p> <p>This module focuses on the identification of animal breeds for production and specific animals for husbandry; the characteristics of a healthy animal; and the causes, prevention and treatment of ill health. The module also addresses workplace health and safety, and procedures for working with animals in yards.</p>	40	<ul style="list-style-type: none"> <li>E2.1 Identification of animals is essential for animal production</li> <li>E2.2 Husbandry techniques are required for animal production</li> <li>E2.4 Managing nutrition produces healthy animals</li> </ul>	<p><b>C1: Animal industries</b></p> <ul style="list-style-type: none"> <li>C1.1 Fundamental information is essential for success in animal industries</li> <li>C1.2 A variety of employment opportunities are available in animal industries</li> <li>C1.4 Maintaining animal health and welfare are requirements for success in animal industries</li> </ul> <p><b>C3: Rules, regulations and recommendations</b></p> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <p><b>C4: Equipment maintenance and operation</b></p> <ul style="list-style-type: none"> <li>C4.1 Check, clean and store equipment</li> <li>C4.2 Use equipment</li> </ul> <p><b>C5: Management practices</b></p> <ul style="list-style-type: none"> <li>C5.2 Working with others is essential when working in agricultural environments</li> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	2	<p><b>Extended response</b></p> <p>Respond to an unseen stimulus from a recent newspaper or magazine article.</p> <ul style="list-style-type: none"> <li>Written response</li> </ul> <p>Report addressing a question based on the article about animal health or animal workplace health and safety procedures. 500–800 words</p>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
2	<b>Module 3: Fencing</b> This module investigates fencing requirements for stock health and security in animal production. Students develop skills in applying workplace health and safety procedures for working with fencing equipment and materials.	27	<ul style="list-style-type: none"> <li>E1.2 Animal production requires infrastructure for containment and handling</li> </ul>	<b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <b>C4: Equipment maintenance and operation</b> <ul style="list-style-type: none"> <li>C4.1 Check, clean and store equipment</li> <li>C4.2 Use equipment</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	3	<b>Project</b> Plan and construct a section of fence line for a designated paddock. <ul style="list-style-type: none"> <li>Performance component               <ul style="list-style-type: none"> <li>Group work to safely construct a section of fencing.</li> </ul> </li> <li>Written component               <ul style="list-style-type: none"> <li>Report that assesses and plans appropriate fencing for a specified agricultural animal.</li> <li>400–700 words</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

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Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
2	<b>Module 4: Plant production</b> This module addresses plant selection, production and the different products produced. Students develop an understanding of the characteristics of a healthy plant along with the causes, prevention and treatment of ill health.	28	<ul style="list-style-type: none"> <li>E5.1 Selection of plants is influenced by a number of factors</li> <li>E5.3 Managing growing medium produces healthy plants</li> <li>E6.1 Different products can be produced from plants</li> </ul>	<b>C2: Plant industries</b> <ul style="list-style-type: none"> <li>C2.1 Fundamental information is essential for success in plant industries</li> <li>C2.2 A variety of employment opportunities are available in plant industries</li> <li>C2.3 Productive plants have nutrition and environmental requirements</li> <li>C2.4 Maintaining plant health is a requirement for success in plant industries</li> </ul> <b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <b>C4: Equipment maintenance and operation</b> <ul style="list-style-type: none"> <li>C4.1 Check, clean and store equipment</li> <li>C4.2 Use equipment</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.1 Agricultural industries require sustainable practices</li> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	4	<b>Investigation</b> In pairs, identify and investigate a plant best suited to producing a specific product or products. <ul style="list-style-type: none"> <li>Multimodal response                Slide show evaluating the sustainability of producing the product(s).                3.0–5.0 minutes</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
3	<b>Module 5: Animal husbandry</b> This module explores how husbandry techniques are required for animal production, including preparing and presenting livestock for showing.	28	<ul style="list-style-type: none"> <li>E2.1 Identification of animals is essential for animal production</li> <li>E2.2 Husbandry techniques are required for animal production</li> <li>E2.4 Managing nutrition produces healthy animals</li> </ul>	<b>C1: Animal industries</b> <ul style="list-style-type: none"> <li>C1.1 Fundamental information is essential for success in animal industries</li> <li>C1.2 A variety of employment opportunities are available in animal industries</li> <li>C1.4 Maintaining animal health and welfare are requirements for success in animal industries</li> </ul> <b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <b>C4: Equipment maintenance and operation</b> <ul style="list-style-type: none"> <li>C4.1 Check, clean and store equipment</li> <li>C4.2 Use equipment</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.1 Agricultural industries require sustainable practices</li> <li>C5.2 Working with others is essential when working in agricultural environments</li> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	5	<b>Project</b> Manage, prepare and show an animal over the course of the module. <ul style="list-style-type: none"> <li>Written component Written plan detailing a timeline for the management and preparation of the animal prior to the show. 500–900 words</li> <li>Performance component Preparing and showing the animal.</li> <li>Spoken component Oral presentation evaluating the effectiveness of the process. 2.5–3.5 minutes</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
3	<b>Module 6: Plant production</b> This module focuses on plant industries and employment opportunities, while gaining a deeper understanding of propagation systems and relevant factors affecting plant growth.	27	<ul style="list-style-type: none"> <li>E5.2 Propagation systems are needed for plant production</li> <li>E5.3 Managing growing medium produces healthy plants</li> </ul>	<b>C2: Plant industries</b> <ul style="list-style-type: none"> <li>C2.1 Fundamental information is essential for success in plant industries</li> <li>C2.2 A variety of employment opportunities are available in plant industries</li> <li>C2.3 Productive plants have nutrition and environmental requirements</li> <li>C2.4 Maintaining plant health is a requirement for success in plant industries</li> </ul> <b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <b>C4: Equipment maintenance and operation</b> <ul style="list-style-type: none"> <li>C4.1 Check, clean and store equipment</li> <li>C4.2 Use equipment</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.2 Working with others is essential when working in agricultural environments</li> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	6	<b>Collection of work</b> Complete a series of tasks based on plant production. <ul style="list-style-type: none"> <li>Written component Brief report on how different propagation systems affect a selected plant's growth. 200–300 words</li> <li>Multimodal component Short video clip on how to identify and manage nitrogen deficiencies. 2.0–3.0 minutes</li> <li>Written component Brief report on how different growing mediums affect a selected plant's growth. 200–300 words</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
4	<b>Module 7: Paddock to plate</b> This module investigates factors that affect animal growth and development, including market requirements and procedures for the quality assessment of products.	34	<ul style="list-style-type: none"> <li>E2.4 Managing nutrition produces healthy animals</li> <li>E3.1 Different animal products can be produced from stock</li> <li>E3.2 Animal products must be processed, packaged, handled, transported and stored to meet market requirements</li> <li>E3.3 Value-adding processes can be carried out on the farm and at the market, by wholesalers and retailers</li> </ul>	<b>C1: Animal industries</b> <ul style="list-style-type: none"> <li>C1.1 Fundamental information is essential for success in animal industries</li> <li>C1.2 A variety of employment opportunities are available in animal industries</li> <li>C1.3 Stock have nutrition requirements</li> <li>C1.4 Maintaining animal health and welfare are requirements for success in animal industries</li> </ul> <b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> <li>C3.2 Observation of workplace health and safety requirements is a requirement when participating in agricultural activities</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.1 Agricultural industries require sustainable practices</li> <li>C5.2 Working with others is essential when working in agricultural environments</li> <li>C5.3 Completion of agricultural activities requires a range of management skills</li> </ul>	7	<b>Investigation</b> Plan and conduct an investigation to effectively manage and grow an animal to meet market requirements. <ul style="list-style-type: none"> <li>Multimodal response Slide show evaluating the factors affecting the animal's growth for market requirements. 4.0–7.0 minutes</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>



Unit	Module number and description	Time in hours	Electives	Core concepts and ideas	Assess no.	Assessment technique, description and conditions	Dimensions
4	<b>Module 8: Issues of reproduction</b> This module addresses the reproductive systems and processes of different animals, with a focus on reproductive techniques and issues with these processes.	21	<ul style="list-style-type: none"> <li>E2.3 Various animal selection and reproduction techniques are used in animal production</li> <li>E5.2 Propagation systems are needed for plant production</li> </ul>	<b>C3: Rules, regulations and recommendations</b> <ul style="list-style-type: none"> <li>C3.1 Commonwealth and State rules, regulations and recommendations control agricultural contexts and activities</li> </ul> <b>C5: Management practices</b> <ul style="list-style-type: none"> <li>C5.1 Agricultural industries require sustainable practices</li> </ul>	8	<b>Extended response</b> Respond to an unseen stimulus from a recent newspaper or magazine article. <ul style="list-style-type: none"> <li>Written response                Report addressing a question based on the article about reproductive techniques.                600–1000 words</li> </ul>	<ul style="list-style-type: none"> <li>Knowing and understanding</li> <li>Analysing and applying</li> <li>Planning and evaluating</li> </ul>

SAMPLE

# Agricultural Practices - Animal and Plant studies 2019

Teacher:

Student name:

Class:

Year:

Unit	Module of work	Assessment Instrument No.	Assessment Instrument	Formative or Summative	Knowing and understanding	Analysing and applying	Planning and evaluating
1	<b>Module one</b> Tractor operations	1	Collection of work	F			
	<b>Module two</b> Animal identification and health	2	Extended response	F			
2	<b>Module three</b> Fencing	3	Project	F			
	<b>Module four</b> Plant production	4	Investigation	F			
Interim Standards							
Interim Result							
3	<b>Module five</b> Animal husbandry	5	Project	S			
	<b>Module six</b> Plant production	6	Collection of work	S			
4	<b>Module seven</b> Paddock to plate	7	Investigation	S			
	<b>Module eight</b> Issues of reproduction	8	Extended response	S			
Exit Standards							
Exit Result							