

## MODULE AGR1030: PRODUCTION BASICS

**Level:** Introductory

**Theme:** Technology and Applications

**Prerequisite:** None

**Module Description:** Students demonstrate the basic steps involved in planting, growing and harvesting a plant commodity; or in raising, growing and finishing an animal commodity, and they identify related career opportunities.

**Module Parameters:** Access to plant or animal production facilities.

Off-campus learning can support the development of practical skills in plant/animal production; consultation with a work site supervisor ensures that relevant safety considerations are addressed and that student learning meets or exceeds the learner expectations in this module.

See the *Off-campus Education Guide for Administrators, Counsellors and Teachers* (Alberta Education, 1995) for further information regarding off-campus learning.

**Note:** Opportunities may exist for the completion of practical components of this module through projects undertaken with local youth groups; e.g., 4-H Clubs.

**Supporting Module:** CTR1210 Personal Safety (Management) [Career Transitions Strand]

Because of the practical nature of this module, students need a general knowledge of accepted practices and potential hazards when performing tasks related to plant or animal production. See Planning for Instruction in Section C for further information on student safety.

### Curriculum and Assessment Standards

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"><li>identify and demonstrate the basic steps and procedures involved in producing a plant or animal commodity</li></ul>	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"><li>preparing a flow chart that illustrates basic stages and steps involved in planting, growing and harvesting a plant commodity, or raising, growing and finishing an animal commodity.</li></ul> <p><i>Assessment Tool</i> <i>Assessment Criteria: Flow Charts, AGRFLO</i> <i>Sample Flow Chart: Production Basics, AGR1030-1</i></p> <p><i>Standard</i> <i>Complete flow chart of plant/animal production tasks to a standard of 1 on the rating scale</i></p>	25

**MODULE AGR1030: PRODUCTION BASICS (continued)**

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> <li>• describe technological systems used within a plant or animal production enterprise</li> </ul>	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> <li>• performing practical tasks relevant to plant or animal production. Practical tasks to involve monitoring and maintaining <u>one</u> or more of the following:               <ul style="list-style-type: none"> <li>– physical growth requirements</li> <li>– plant/animal health</li> <li>– buildings/structures and equipment.</li> </ul> </li> </ul> <p><i>Assessment Tool</i> <i>Lab Assessment, AGRLAB–PLT or AGRLAB–ANM</i></p> <p><i>Standard</i> <i>Achieve a minimum performance rating of 1 in applicable areas of task assessment</i></p> <ul style="list-style-type: none"> <li>• maintaining an anecdotal record of production tasks performed.</li> </ul> <p><i>Assessment Tool</i> <i>Log/Record of Production Tasks, AGRLOG–PLT or AGRLOG–ANM</i></p> <p><i>Standard</i> <i>Complete all sections of the log/record for each task performed over a negotiated/contracted period of time</i></p> <ul style="list-style-type: none"> <li>• constructing a drawing/model of a technological system designed to address one or more needs relevant to plant or animal production.</li> </ul> <p><i>Assessment Tool</i> <i>Project Assessment: Technology Design, AGRTEC</i> <i>Assessment Criteria: Diagrams and Technical Drawings, AGRDRA</i></p> <p><i>Standard</i> <i>Complete the drawing/model to a standard of 1 on the rating scale</i></p>	<p>25</p> <p>25</p>



**MODULE AGR1030: PRODUCTION BASICS (continued)**

Concept	Specific Learner Expectations	Notes
<p>Production Practices (continued)</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• describe a strategy for protecting the health of a chosen commodity; e.g.:               <ul style="list-style-type: none"> <li>– identification of diseases, deficiencies and ailments</li> <li>– treatment, control and prevention</li> <li>– ethical concerns</li> </ul> </li> <li>• relate concepts of breeding and selection to production practices; e.g.:               <ul style="list-style-type: none"> <li>– systems of breeding</li> <li>– selection criteria</li> <li>– genetic engineering</li> </ul> </li> <li>• describe buildings/structures and equipment appropriate to production; e.g.:               <ul style="list-style-type: none"> <li>– design features</li> <li>– operation and maintenance</li> <li>– safety</li> <li>– economics/cost.</li> </ul> </li> </ul>	<p>Identify common pests/diseases.</p> <p>Discuss chemical and non-chemical methods of pest and disease control.</p> <p>Identify common breeds/varieties.</p> <p>Design/build a hydroponic garden.</p> <p>Research factors in animal health.</p>
<p>Career Opportunities</p>	<ul style="list-style-type: none"> <li>• research career opportunities and occupations relevant to agriculture or horticulture production; e.g.:               <ul style="list-style-type: none"> <li>– science/production management</li> <li>– support services</li> <li>– resource management</li> </ul> </li> <li>• describe current employment statistics for one or more career opportunities; e.g.:               <ul style="list-style-type: none"> <li>– types of occupations</li> <li>– number of workers</li> <li>– employment trends</li> </ul> </li> <li>• predict career opportunities and trends from employment statistics</li> <li>• describe information regarding agriculture or horticulture production industries in the future, and resulting career opportunities.</li> </ul>	<p>Plan for individual/group research and presentations.</p> <p>Arrange/facilitate information interviews and job shadowing.</p> <p>See the National Occupational Profiles (NOC) in Section H: Linkages/Transitions.</p> <p>Contact the “Career Hotline” (telephone: 1-800-661-3753).</p>