

COURSE CON2100: AGRI-STRUCTURES**Level:** Intermediate**Theme:** Building Systems (Processes and Applications)**Prerequisite:** CON1010 Basic Tools & Materials**Description:** Students apply construction principles and skills, and use preengineered designs to build a structure to be used for agricultural purposes.**Parameters:** Access to a building site and/or construction facilities and to instruction from an individual with specialized training in carpentry or metal work.**Supporting Course:** CON1070 Building Construction**Curriculum and Assessment Standards**

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> identify the major issues that must be addressed when designing an agri-structure 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> presentation of a written project brief that identifies and describes the major factors to be considered when designing, planning and constructing an agri-structure, such as: <ul style="list-style-type: none"> human and environmental safety animal comfort and safety crop protection cost of construction 	10
<ul style="list-style-type: none"> read and interpret the appropriate drawings and specifications to create a material and cost estimate 	<ul style="list-style-type: none"> appropriate design selection, modification or creation of an agri-structure design that meets Alberta Agriculture standards and local code requirements 	20
<ul style="list-style-type: none"> construct a structure for use in agriculture 	<ul style="list-style-type: none"> demonstration of appropriate construction and fabrication skills. <p><i>Assessment Tool</i> <i>Project Assessment: Building an Agri-Structure, CON2100-1</i></p> <p><i>Standard</i> <i>The appropriate materials are selected and ordered. The structure should be accurately laid out, assembled and finished according to conventional building practices</i> <i>Performance rating of 2 for each applicable task</i></p>	70

MODULE CON2100: AGRI-STRUCTURES (continued)

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observations of individual effort and interpersonal interaction during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p>Integrated throughout</p>

Concept	Specific Outcomes	Notes
<p>Orientation</p> <ul style="list-style-type: none"> Materials and Structures 	<p><i>The student should:</i></p> <ul style="list-style-type: none"> describe the types of materials and structures used in agriculture businesses list the factors that affect the choice of materials and design of agri-structure such as: <ul style="list-style-type: none"> human and environmental safety standards animal comfort and safety crop protection conditions of use ease of construction and maintenance material cost. 	<p>This module provides students with the opportunity to apply basic construction principles and practices to farm-type buildings and structures.</p>
<p>Planning and Management</p> <ul style="list-style-type: none"> Structural Designs Estimating and Scheduling 	<ul style="list-style-type: none"> produce/select an agri-structure design that: <ul style="list-style-type: none"> uses two or more types of structural materials applies basic construction principles and processes meets industry standards estimate the cost of materials and prepare a work schedule. 	

MODULE CON2100: AGRI-STRUCTURES (continued)

Concept	Specific Learner Expectations	Notes
Implementation <ul style="list-style-type: none"><li data-bbox="207 453 386 516">• Material Processing	<i>The student should:</i> <ul style="list-style-type: none"><li data-bbox="488 453 1109 516">• use the appropriate tools materials and processes to construct and finish a structure.	
Assessment <ul style="list-style-type: none"><li data-bbox="207 625 386 688">• Career Preparation	<ul style="list-style-type: none"><li data-bbox="488 625 1122 688">• maintain a record of completed activities within a portfolio.	

