

**COURSE CON3020: MASONRY WORK (STRUCTURES & FINISHES)****Level:** Advanced**Theme:** Building Systems (Processes and Applications)**Prerequisite:** CON1010 Basic Tools & Materials**Description:** Students develop basic knowledge and skills related to masonry materials, structures and finishes.**Parameters:** Access to a building site and/or construction facility and to instruction from an individual with specialized training in masonry work.**Supporting Courses:** CON1070 Building Construction  
CON3010 Concrete Work (Structures & Finishes)**Curriculum and Assessment Standards**

General Outcome	Assessment Criteria and Conditions	Suggested Emphasis
<i>The student will:</i> <ul style="list-style-type: none"> <li>identify and describe common types of masonry materials and finishes</li> <li>read and interpret a working drawing to prepare a cost estimate of a masonry surface</li> <li>apply masonry skills to assist in the application of a masonry finish or in the construction of a masonry structure</li> </ul>	<i>Assessment of student achievement should be based on:</i> <ul style="list-style-type: none"> <li>written response that correctly identifies and describes three different masonry materials and finishes.</li> </ul> <i>Assessment Tool</i> <i>Research Process: Masonry Materials and Finishes, CON3020-1</i>  <i>Standard</i> <i>Performance rating of 3 for each applicable task</i>	10
	<ul style="list-style-type: none"> <li>preparation of a cost estimate that includes cost of materials and labour</li> </ul>	15
	<ul style="list-style-type: none"> <li>demonstration of acceptable works skills in relation to the application of a masonry finishes or construction of a masonry structure.</li> </ul> <i>Assessment Tool</i> <i>Assessment Framework: Activity Assessment, CONACT</i>  <i>Standard</i> <i>Finishes are applied and structure built in keeping with accepted trade practice</i> <i>Performance rating of 3 for each applicable task</i>	65



**MODULE CON3020: MASONRY WORK (STRUCTURES & FINISHES) (continued)**

Concept	Specific Learner Expectations	Notes
<ul style="list-style-type: none"> <li>• Brick Veneering (continued)</li> <li>• Stuccoing</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• list and describe the basic tools that are used in laying brick and concrete blocks</li> <li>• describe the techniques that are used to:               <ul style="list-style-type: none"> <li>– cut brick</li> <li>– keep courses level and plumb</li> <li>– build a lead</li> <li>– tool joints</li> </ul> </li> <li>• examine a stucco wall section and identify the:               <ul style="list-style-type: none"> <li>– moisture barrier</li> <li>– corner and stop beads</li> <li>– lath or wire</li> <li>– scratch coat</li> <li>– screeds</li> <li>– finish coat</li> </ul> </li> <li>• identify common finishes and methods of application such as:               <ul style="list-style-type: none"> <li>– smooth</li> <li>– spatter</li> <li>– old English</li> </ul> </li> <li>• identify the differences and similarities between applying a stucco finish to a frame wall and applying parging to a cement or block wall</li> <li>• describe the steps that are taken to compensate for extreme weather conditions.</li> </ul>	<p>If possible, have students visit a building site to observe how bricks are laid.</p>
<p>Planning and Management</p> <ul style="list-style-type: none"> <li>• Mixing Proportions</li> <li>• Estimating</li> </ul>	<ul style="list-style-type: none"> <li>• describe the proper mixing proportions to prepare a mortar, stucco and parging mix</li> <li>• estimate the amount of materials required to brick veneer a wall section, stucco or parge a surface.</li> </ul>	

**MODULE CON3020: MASONRY WORK (STRUCTURES & FINISHES) (continued)**

Concept	Specific Learner Expectations	Notes
<p>Implementation</p> <ul style="list-style-type: none"> <li>• Material and Tool Processes</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• use appropriate materials, tools and techniques to:                             <ul style="list-style-type: none"> <li>– apply a brick veneer finish or build a brick structure</li> <li>– stucco or parge a wall surface.</li> </ul> </li> </ul>	<p>Students can gain experience laying brick using a non-permanent mortar.</p>
<p>Assessment</p> <ul style="list-style-type: none"> <li>• Career Information</li> <li>• Career Preparation</li> </ul>	<ul style="list-style-type: none"> <li>• identify specialized training and skills required in the masonry trades</li> <li>• research the job opportunities, working conditions and wages paid to masonry workers</li> <li>• analyze personal interests and abilities related to making realistic career choices</li> <li>• maintain a record of completed activities within a portfolio.</li> </ul>	