

## MODULE CON3110: SITE MANAGEMENT

**Level:** Advanced

**Theme:** Building Systems (Processes and Applications)

**Prerequisite:** CON1070 Building Construction

**Module Description:** Students consider the efficient and timely delivery of a quality product. They investigate and report on site management theories and practices to produce a project management plan.

**Module Parameters:** Access to appropriate in-school and community resources.

### Curriculum and Assessment Standards

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<i>The student will:</i> <ul style="list-style-type: none"><li>• identify and describe the key elements of project management related to commercial and residential construction</li><li>• outline the roles and responsibilities of the principal players on a construction project</li><li>• apply site management theories and practices to create a management plan for a construction project</li></ul>	<i>Assessment of student achievement should be based on:</i> <ul style="list-style-type: none"><li>• identification and description of the major components and phases of project management plan</li><li>• accurate description of the roles and responsibilities of a project manager in relation to one or more key players found on a construction site</li><li>• development of a real or simulated management plan for a simple residential or light commercial project.</li></ul> <i>Assessment Tool</i> <i>Research Process, Management Principles and Practices, CON3110-1</i> <i>Standard</i> <i>Performance rating of 3</i>	30  35  35

**MODULE CON3110: SITE MANAGEMENT (continued)**

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

Concept	Specific Learner Expectations	Notes
<p>Orientation</p> <ul style="list-style-type: none"> <li>Management Phases</li> <li>Planning</li> <li>Scheduling</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>identify the key elements of project management; e.g.:               <ul style="list-style-type: none"> <li>planning</li> <li>scheduling</li> <li>implementing</li> <li>controlling</li> </ul> </li> <li>describe the roles and responsibilities of the project manager in relation to:               <ul style="list-style-type: none"> <li>reviewing contractual agreements and deliverables</li> <li>establishing effective lines of communication with:                   <ul style="list-style-type: none"> <li>client</li> <li>suppliers</li> <li>contractors</li> <li>inspectors</li> </ul> </li> <li>determining site conditions and amenities; electrical, plumbing and gas supplies</li> </ul> </li> <li>compare the advantages and disadvantages of using the critical path and bar chart methods for scheduling a project</li> <li>identify strategies to help bring a project back on schedule</li> <li>describe the need for good communication and cooperation between various trades and occupations on a construction site</li> </ul>	<p>Have student understand that project management is the effective and efficient use of human and material resources.</p> <p>Discuss the importance of knowing the client's needs and being able to convey these to other players to avoid potential problems.</p> <p>If possible, use a computer program to plan a work schedule.</p> <p>Discuss the use of contingency time and running jobs in parallel.</p>

**MODULE CON3110: SITE MANAGEMENT (continued)**

Concept	Specific Learner Expectations	Notes
<ul style="list-style-type: none"> <li>• Implementing</li> <li>• Controlling</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• identify the primary tasks of completing a project in relation to:               <ul style="list-style-type: none"> <li>– managing supplies</li> <li>– managing contractors</li> <li>– arranging inspections</li> <li>– communicating with the client</li> <li>– keeping records</li> </ul> </li> <li>• research procedures to control:               <ul style="list-style-type: none"> <li>– safety on the work site</li> <li>– quality of work</li> <li>– removal and disposal of materials</li> <li>– project costs.</li> </ul> </li> </ul>	<p>Lines of communication must be kept open between the key players. Records should also be kept to document work in progress and work that has been completed.</p> <p>Remind students that project managers must be aware of the personal health and safety as well as environmental issues related to new and renovated structures.</p>
<p>Implementation</p> <ul style="list-style-type: none"> <li>• Planning</li> <li>• Scheduling</li> <li>• Worker Roles and Relationships</li> </ul>	<ul style="list-style-type: none"> <li>• develop a work plan for a given project by determining:               <ul style="list-style-type: none"> <li>– what is to be done</li> <li>– how it will be done</li> <li>– who will do it</li> <li>– when it should be done</li> </ul> </li> <li>• schedule the work using a bar chart or critical path technique</li> <li>• report on the roles and responsibilities for one or more of the following job site positions:               <ul style="list-style-type: none"> <li>– site superintendent</li> <li>– safety supervisor</li> <li>– subtrade contractor</li> <li>– foreman</li> <li>– skilled worker.</li> </ul> </li> </ul>	<p>If possible, have students use a computer program to develop a work schedule.</p>
<p>Assessment</p> <ul style="list-style-type: none"> <li>• Quality Control</li> </ul>	<ul style="list-style-type: none"> <li>• analyze a project and identify procedures to improve:               <ul style="list-style-type: none"> <li>– time management</li> <li>– quality of work</li> <li>– health and safety</li> <li>– cost-efficiencies</li> </ul> </li> </ul>	

**MODULE CON3110: SITE MANAGEMENT** (continued)

Concept	Specific Learner Expectations	Notes
<ul style="list-style-type: none"><li>• Career Information</li><li>• Career Preparation</li></ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"><li>• identify the employment and business opportunities related to site management</li><li>• maintain a record of completed activities within a portfolio.</li></ul>	