

## MODULE CON2150: FINISHING & REFINISHING

**Level:** Intermediate

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

**Prerequisite:** CON1010 Basic Tools & Materials

**Module Description:** Students use knowledge of finishing materials and finishing techniques to apply new and replacement finishes.

**Module Parameters:** Access to a woodworking or materials facility and to instruction from an individual with specialized training in finishing/refinishing.

### 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 common finishes and finishing/refinishing techniques</li> <li>identify and describe the health hazards and Workplace Hazardous Materials Information System (WHMIS) regulations associated with the products used in finishing/refinishing</li> <li>demonstrate appropriate finishing/refinishing techniques</li> </ul>	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> <li>a written or oral response that identifies common finishes and application techniques, health hazards associated with the handling and storage of finishing materials.</li> </ul> <p><i>Assessment Tool</i>  <i>Response Assessment: Common Finishes and Finishing Techniques, CON2150-1</i></p> <p><i>Standard</i>  <i>Response rating of 2</i></p> <ul style="list-style-type: none"> <li>application of finishing skills to finish/refinish a piece of furniture</li> </ul> <p><i>Assessment Tool</i>  <i>Activity Assessment: Product Finishing, CON2150-2</i></p> <p><i>Standard</i>  <i>Finish should be applied according to the manufacturer's recommendations. Finished surfaces are consistent smooth, free of runs and dust particles</i>  <i>Performance rating of 2 for each applicable task</i></p>	<p>20</p> <p>10</p> <p>70</p>

**MODULE CON2150: FINISHING & REFINISHING (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>• Refinishing</li> <li>• Conditioning</li> <li>• Finishes</li> <li>• Sealers and Fillers</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• describe techniques that are used to:               <ul style="list-style-type: none"> <li>– identify an existing finish</li> <li>– remove a stain or finish</li> <li>– prepare a surface for refinishing</li> </ul> </li> <li>• explain:               <ul style="list-style-type: none"> <li>– bleaching and staining</li> <li>– filling and sealing</li> <li>– creating a distressed finish</li> </ul> </li> <li>• identify common finishes and applications</li> <li>• explain the purpose of a filler and sealer</li> <li>• identify the preferred method of applying each of the above finishes such as brush, roller, rag, spray gun</li> <li>• describe what thinners and cleaners are used in conjunction with a given finish</li> </ul>	<p>Avoid working with finishes that contain lead.</p> <p>Discuss the use of:</p> <ul style="list-style-type: none"> <li>• oil</li> <li>• shellac</li> <li>• varnish</li> <li>• lacquer</li> <li>• urethane</li> <li>• epoxy</li> <li>• finishes.</li> </ul> <p>Explain why it is important to use the appropriate finish remover and thinner.</p>

**MODULE CON2150: FINISHING & REFINISHING (continued)**

Concept	Specific Learner Expectations	Notes
<ul style="list-style-type: none"> <li>• Health and Safety</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• describe the manufacturers' recommendations and WHMIS regulations that apply to the use and storage of a given product.</li> </ul>	<p>Students need to understand the purpose and use of product labels and material safety data sheets.</p>
<p>Planning and Management</p>	<ul style="list-style-type: none"> <li>• for a refinishing project:               <ul style="list-style-type: none"> <li>– identify the nature of the existing finish and finish removers</li> <li>– identify appropriate personal protective equipment</li> </ul> </li> <li>• for new and old surfaces:               <ul style="list-style-type: none"> <li>– select a suitable new or replacement finish</li> <li>– prepare a detailed set of step-by-step finishing procedures</li> <li>– clean the product and the work site.</li> </ul> </li> </ul>	<p>Review the appropriate procedures for disposing of waste materials.</p>
<p>Implementation</p> <ul style="list-style-type: none"> <li>• Finishing Processes</li> <li>• Safety</li> </ul>	<ul style="list-style-type: none"> <li>• use the appropriate tools, materials and techniques to:               <ul style="list-style-type: none"> <li>– remove an existing finish</li> <li>– stain and seal</li> <li>– apply the necessary top coats</li> <li>– sand, rub and polish as required</li> </ul> </li> <li>• discard all rags and used materials in the appropriate containers.</li> </ul>	<p>Point out the importance of working in a clean and well-ventilated work area.</p>
<p>Assessment</p> <ul style="list-style-type: none"> <li>• Quality Control</li> <li>• Career Preparation</li> </ul>	<ul style="list-style-type: none"> <li>• identify ways to improve the quality of a finish</li> <li>• maintain a record of completed activities within a portfolio.</li> </ul>	

