

**MODULE CON3140: FURNITURE MAKING 4 (SURFACE ENHANCEMENT)**

**Level:** Advanced

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

**Prerequisite:** CON1120 Project Management

**Module Description:** Students explore and demonstrate the use of veneer, inlay, carving and/or marquetry techniques to enhance the appearance of a product or component.

**Module Parameters:** Access to a materials and/or construction facility and to instruction from an individual with formal, specialized training in furniture and cabinetmaking.

**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 describe methods of matching wood veneer</li> <li>• differentiate between inlay, marquetry and carving techniques</li> <li>• create a veneer, inlay or carving feature for a product or component</li> </ul>	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> <li>• a written response that correctly identifies and describes at least four methods of matching wood veneer</li> <li>• a written response that correctly identifies the differences between inlay, marquetry and carving techniques.</li> </ul> <p><i>Assessment Tool</i>  <i>Response Assessment: Surface Enhancements, CON3140-1</i></p> <p><i>Standard</i>  <i>Performance rating of 3 for each applicable task</i></p> <ul style="list-style-type: none"> <li>• application of veneering/inlaying or carving skills and techniques on a component or a product.</li> </ul> <p><i>Assessment Tool</i>  <i>Assessment Framework: Project Assessment, CONPRO</i></p> <p><i>Standard</i>  <i>The enhancement will be tight fitting, appropriately matched and detailed using materials that add to the overall appearance and value of the product</i>  <i>Performance rating of 3 for each applicable task</i></p>	<p>15</p> <p>15</p> <p>70</p>

**MODULE CON3140: FURNITURE MAKING 4 (SURFACE ENHANCEMENT) (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>Veneering</li> <li>Marquetry and Inlaying</li> <li>Carving</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>describe the principal methods used to produce a wood veneer; e.g.:               <ul style="list-style-type: none"> <li>rotary cutting</li> <li>flat or plain slicing</li> <li>quarter slicing</li> <li>right and half round cutting</li> </ul> </li> <li>identify the methods used to match veneer such as:               <ul style="list-style-type: none"> <li>slip</li> <li>diamond</li> <li>checkerboard</li> <li>book</li> </ul> </li> <li>describe successful cutting and applying techniques</li> <li>differentiate between marquetry and inlaying</li> <li>explain how hand and machine carving differ.</li> </ul>	<p>Discuss the advantages and disadvantages of using different core materials and adhesives.</p>

**MODULE CON3140: FURNITURE MAKING 4 (SURFACE ENHANCEMENT) (continued)**

Concept	Specific Learner Expectations	Notes
<p>Planning and Management</p> <ul style="list-style-type: none"> <li>• Product Selection</li> <li>• Design</li> </ul>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• identify a product or component that: <ul style="list-style-type: none"> <li>– requires veneering</li> <li>– is enhanced by a carved, inlaid or marquetry feature</li> </ul> </li> <li>• select an appropriate veneer</li> <li>• sketch the desired veneer match</li> <li>• sketch a design for a carved, inlaid or marquetry feature.</li> </ul>	
<p>Implementation</p>	<ul style="list-style-type: none"> <li>• use appropriate tools, materials and processes to: <ul style="list-style-type: none"> <li>– cut and fit the veneer</li> <li>– apply and glue a veneer</li> <li>– create an inlay, marquetry or carving feature.</li> </ul> </li> </ul>	
<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 the employment and business opportunities related to advanced furniture making</li> <li>• maintain a record of completed activities within a portfolio.</li> </ul>	

