

**MODULE DES3150: TECHNICAL DRAWING STUDIO 2****Level:** Advanced**Theme:** Drafting for Design and Technical Drawing Skills**Prerequisite:** None**Module Description:** Students identify and specify details of various product components with a focus on representations of developments; e.g., sheet metal flashing, clothing patterns, and on intersections; e.g., the intersection of two heating ducts.**Module Parameters:** Basic sketching and drawing tools and equipment, drafting tables, equipment and materials and/or a computer with a computer-aided design (CAD) software package, a printer and/or plotter. Specialized equipment or facilities depend on the approach taken to the module.**Note:** It is recommended that students have access to instruction from an individual with formal, specialized training in a design discipline, drafting and CAD.**Supporting Module:** DES3140 Technical Drawing Studio 1**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>produce surface developments and intersections for fabricating, constructing and/or manufacturing</li> </ul>	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> <li>production of a set of detailed technical drawings based on an advanced level assignment and including one of each of the following:               <ul style="list-style-type: none"> <li>– surface development</li> <li>– intersection.</li> </ul> </li> </ul> <p><i>Assessment Tool</i>  <i>Project Assessment: Technical Drawing Studio 2 (DES3150–1)</i></p> <p><i>Standard</i>  <i>Performance rating of 2 for each criteria</i></p>	60
	<ul style="list-style-type: none"> <li>produce drawings for different applications, such as heating ducting, tent manufacturing, outerwear manufacturing, and different materials; e.g., sheet metal, plastic, canvas, wool</li> </ul>	<ul style="list-style-type: none"> <li>production of drawings to meet specific requirements.</li> </ul> <p><i>Assessment Tool</i>  <i>Project Assessment: Technical Drawing Studio 2 (DES3150–1)</i></p> <p><i>Standard</i>  <i>Performance rating of 2 for each criteria</i></p>

**MODULE DES3150: TECHNICAL DRAWING STUDIO 2** (continued)

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 use codes, specifications and conventions as they apply in the drawings produced</li> <li>• select, organize and present design projects</li> <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>• identification and application of codes and specifications, standards and conventions as they pertain to the project and as determined by the teacher and/or other qualified individual.</li> </ul> <p><i>Assessment Tool</i>  <i>Local, regional, provincial, national and international reference manuals for codes and standards</i>  <i>Project Assessment: Technical Drawing Studio 2 (DES3150-1)</i></p> <p><i>Standard</i>  <i>Performance rating of 2 for each criteria</i></p> <ul style="list-style-type: none"> <li>• maintenance and presentation of a module-based design portfolio and a design journal. Emphasis during the presentation/critique of the module-based portfolio with the teacher and/or peers will be placed on the selection, use and technical execution of drawing types, and the student’s discourse regarding: <ul style="list-style-type: none"> <li>– the adequacy of the drawings for illustrating the designed solution</li> <li>– how the specific requirements of materials and applications have been met in the drawings</li> <li>– judgments made during the assignment and why these were made</li> <li>– the effect they had in shaping the final result.</li> </ul> </li> </ul> <p><i>Assessment Tool</i>  <i>Presentations/Reports: Drafting for Design and Technical Drawing Skills (Advanced) (DESPRE-3E)</i></p> <p><i>Standard</i>  <i>Performance rating of 3 for each criteria</i></p> <ul style="list-style-type: none"> <li>• observations of individual effort and interpersonal exploration 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>10</p> <p>20</p> <p>Integrated throughout</p>

**MODULE DES3150: TECHNICAL DRAWING STUDIO 2** (continued)

Concept	Specific Learner Expectations	Notes
Skills Development	<p><i>The student should:</i></p> <ul style="list-style-type: none"> <li>• produce at least two examples of each of the following within the drawings produced:               <ul style="list-style-type: none"> <li>– intersections</li> <li>– surface developments</li> </ul> </li> <li>• from sketches and/or multiview drawings prepared in previous modules or provided by the teacher, produce additional drawings appropriate to the design's requirements</li> <li>• accurately calculate dimensions as required</li> <li>• use codes, specifications and conventions as required</li> <li>• select and use appropriate tools and materials.</li> </ul>	See notes from other Technical Drawing modules.
Applied Problem Solving	<ul style="list-style-type: none"> <li>• produce drawings that take into account different materials and applications.</li> </ul>	
Presentation, Design Journal and Portfolio	<ul style="list-style-type: none"> <li>• see Specific Learner Expectations for 2-D Design Studio 1 and Drafting/Design Studio 1.</li> </ul>	See notes from other Studio modules.

