

MODULE DES3160: TECHNICAL DRAWING STUDIO 3**Level:** Advanced**Theme:** Drafting for Design and Technical Drawing Skills**Prerequisite:** None**Module Description:** Students diagram and illustrate the design specifications for a product, structure and/or process as a basis for fabrication, manufacturing and/or construction. They complete a set of working drawings for a self-generated or teacher-specified designed item.**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.**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"> produce a complete set of working drawings for a student-generated or teacher-specified designed item identify and use codes, specifications and conventions as they apply in the drawings produced 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> production of a complete set of detailed working drawings based on an advanced level assignment. <p><i>Assessment Tool</i> <i>Project Assessment: Technical Drawing Studio 3 (DES3160-1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p>	70
	<ul style="list-style-type: none"> 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. <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 3 (DES3160-1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p>	10

MODULE DES3160: TECHNICAL DRAWING STUDIO 3 (continued)

Concept	Specific Learner Expectations	Notes
Applied Problem Solving	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • given a design for which working drawings are to be produced, select appropriate drawing types (e.g., sections, elevations, detail drawings, assembly drawings) to satisfy the detail needs for fabrication, manufacturing and/or construction of a designed item • rationalize the selection of materials used in the design project based on their properties. 	See notes from other Technical Drawing and Drafting/Design Studio modules.
Presentation, Design Journal and Portfolio	<ul style="list-style-type: none"> • see Specific Learner Expectations for 2-D Design Studio 1 and Drafting/Design Studio 1. 	See notes from other Studio modules.

