



COURSE OUTLINE

DRF120

Prepared: Neal Moss Approved:

Course Code: Title	DRF120: DRAFTING AND BLUEPRINT READING BASICS
Program Number: Name	4005: PRE-TRADES TECHNOLOGY
Department:	PRE-TRADES & TECHNOLOGY
Semester/Term:	17F
Course Description:	The tradesperson is often required to receive and transfer technical information. Technical drawings, free hand sketches, schematics and flow diagrams are forms of this information transfer. This introductory course will expose the student to these methods of information transfer by drawing objects using standard drafting techniques, making complete, neat free hand sketches. Students will also use CAD software to create and interpret digital drawings.
Total Credits:	2
Hours/Week:	2
Total Hours:	30
Substitutes:	DRF105
Course Evaluation:	Passing Grade: 50%, D
Other Course Evaluation & Assessment Requirements:	<p>Attendance - 1% may be deducted for late arrival and/or early leaving where not approved by instructor. Cell phones must be turned off while in the classroom</p> <p>Grade Definition Grade Point Equivalent A+ 90 – 100% 4.00 A 80 – 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 – 59% 1.00 F (Fail) 49% and below 0.00</p> <p>CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field /clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student</p>



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Evaluation Process and Grading System:

additional time to complete the requirements for a course.
NR Grade not reported to Registrar's office.
W Student has withdrawn from the course without academic penalty.

Evaluation Type	Evaluation Weight
Assignments (4-6)	50%
Attendance	10%
Quizzes (4-6)	40%

Books and Required Resources:

Blueprint Reading for the Construction Trades by Peter A. Mann
Publisher: Micro-Press
ISBN: 0968835368
Drafting Kit for DRF120 (available in Campus Book Store)

Course Outcomes and Learning Objectives:

Course Outcome 1.

1. Drawing Instruments

Learning Objectives 1.

- With assorted problems learn the proper use of drafting instruments

Course Outcome 2.

2. Orthographic

Learning Objectives 2.

- Discuss when single view or multi – view orthographic are required.
- Sketch free hand assorted orthographic drawings
- Draw, with instruments assorted orthographic drawings
- Transfer surfaces
- Add missing views
- Finish incomplete views



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- Apply proper dimension techniques

Course Outcome 3.

3. Isometrics

Learning Objectives 3.

Potential Elements of the Performance:

- Understand the advantages of isometric drawings
- Sketch freehand isometric views
- Draw isometric views to scale

Course Outcome 4.

4. Residential buildings

Learning Objectives 4.

Potential Elements of the Performance:

- With a set of house plans complete an isometric drawing of one room
- Calculate various amounts of building materials required
- With excerpts of the buildings codes understand why certain construction techniques are used

Course Outcome 5.

5. Commercial buildings

Learning Objectives 5.

Potential Elements of the Performance:



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- Using commercial drawings answer varied questions pertaining to the trades involved in the construction process.

Course Outcome 6.

6. Industrial applications

Learning Objectives 6.

Potential Elements of the Performance:

- Using industrial drawings, schematics and flow diagrams answer varied questions pertaining to the trades involved in construction and maintenance.

Course Outcome 7.

7. Computer Aided Drafting Applications

Learning Objectives 7.

- Use AutoCAD to open and navigate drawing files
- Measure distances and areas using CAD
- Gather information from drawings using object properties
- Print AutoCAD drawings

Date:

Friday, September 1, 2017

Please refer to the course outline addendum on the Learning Management System for further information.