

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



Sault College

**COURSE OUTLINE**

**COURSE TITLE:**

DRAFTING & BLUEPRINT READING

**CODE NO. :**

PIP0600

**SEMESTER:**

**PROGRAM:**

INTRO TO PLUMBER & STEAMFITTER TRADES

**AUTHOR:**

BRIAN MICK

**DATE:**

SEPT.  
2002

**PREVIOUS OUTLINE DATED:**

N/A

**APPROVED:**

\_\_\_\_\_  
**DEAN**

\_\_\_\_\_  
**DATE**

**TOTAL CREDITS:**

3 CR

**PREREQUISITE(S):**

GRADE 10 LEVEL MATH & ENGLISH

**LENGTH OF  
COURSE:**

8 WEEKS

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*For additional information, please contact Pat Gibbons, Dean*  
*Apprenticeship & Trades*  
*(705) 759-2554, Ext. 656*

**I. COURSE DESCRIPTION:**

This curriculum has been developed to provide the student with an introduction to blueprint reading required for plumber and steamfitter trades.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

Upon successful completion of this course, the student will demonstrate the ability to:

1. Select and apply the correct drafting equipment:  
Potential Elements of the Performance:
  - Identify and use:
    - T- Square
    - Set Squares
    - Scale Rules
    - Erasing Shield
    - Circle Template
  - Identify correct drafting lines
  - Identify orthographic drawings
  - Identify isometric drawings
  
2. Apply specific drafting equipment & piping symbols in orthographic drawings.  
Potential Elements of the Performance:
  - Identify proper equipment required
  - Interpret and illustrate the correct symbols
  - Organize drawings in proper orientation
  -
  
3. Apply specific drafting equipment & piping symbols in isometric drawings.  
Potential Elements of the Performance
  - Identify proper equipment required
  - Identify and interpret proper line direction
  - Interpret an orthographic drawing and convert to an isometric drawing
  
4. Review Construction Drawings.  
Potential Elements of the Performance
  - Identify site plan, architectural drawing, mechanical drawing, electrical drawing, structural drawing and specifications

**III. TOPICS:**

1. Drafting Equipment
2. Set up of Drawings
3. Types of Drawings
  - (a) Orthographic Drawings
  - (b) Isometric Drawings
4. Converting Drawings
5. Building Plans

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

*Drafting Paper as required*  
*H and 2H Pencils*  
*Staedtler Mars Plastic Eraser*  
*Drafting Equipment supplied to students on loan*

**V. EVALUATION PROCESS/GRADING SYSTEM:**

Final Grade based on assigned projects and test(s).

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A	85 - 100%	
B	75 - 84%	
C	60 - 74%	
D	50 - 59%	
FAIL	0 - 49%	

**VI. SPECIAL NOTES:**Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

**VII. PRIOR LEARNING ASSESSMENT:**

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

**VIII. DIRECT CREDIT TRANSFERS:**

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.

