

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: BLUEPRINT READING (BASIC DRAFTING)

CODE NO: BPR603 SEMESTER: _____

PROGRAM: BRICK AND STONE MASON APPRENTICE - BASIC

AUTHOR: D. GRANDMONT

DATE: MAY 10, 1991 PREVIOUS OUTLINE DATED: N/A

APPROVED: D. McCormack
Dean, School of Technical Trades

91-11-19
Date

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TOTAL CREDIT HOURS: 24 HOURS

PREREQUISITE(S):

I. PHILOSOPHY/GOALS:

Upon completion of this course the student will be familiar with the principles of basic drafting and blueprint reading.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

1. Have a basic understanding of frame masonry, various types of drawings, architectural standard symbols and actual reproduction of objects drafted in scale.
2. Be capable of referring to basic blueprints to determine layouts and dimensions.

III. TOPICS TO BE COVERED:

1. History of Blueprints
2. Working Drawings
3. Stages in Production of a set of House Plans
4. Orthographic Projections
5. Dimensioning
6. Architects Scale
7. Isometric Drawings
8. Use of Blueprints
9. Terminology
10. Symbols

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IV. LEARNING ACTIVITIES REQUIRED RESOURCES
(Optional)

- | | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| - draw three view projections of five objects | Building Trades Blueprint Reading |
| - draw three view projections with proper layout and dimensions added to 3 objects | Residential Canadian SI Edition |
| - convert measurements with the use of an Architect's scale to 35 dimensions | Based on Text Building Trades Blueprint Reading Part I: Fundamentals |
| - convert dimensions and draft two projects to scale | 5th Edition by Elmer W. Sandberg |
| - draft Isometric drawings to designated dimensions | Several handouts developed by college instructors of which D. Grandmont put together to evaluate and instruct students in basic drafting techniques |
| - read blueprints and recognize various symbols related to the trade | |

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V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS ETC.)

1. Seven drawing projects (orthographic projections, isometric drawings)
2. Two assignment sheets on scales
3. One written test on working drawings and symbols

VI. REQUIRED STUDENT RESOURCES

VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY
BOOK SECTION: (title, publisher, edition, date, library call number if applicable - see attached example)

Periodical Section

Magazines
Articles

Audiovisual Section

Films
Filmstrips
Transparencies

VIII. SPECIAL NOTES

This course gives the student what is required to move on into the Intermediate Blueprint Reading.