

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: BLUEPRINT READING

CODE NO: IRN 602 **SEMESTER:** N/A

PROGRAM: IRONWORKER - BASIC

AUTHOR: D. SOCCHIA

DATE: Oct 1994 **PREVIOUS OUTLINE DATED:** Oct 1993

APPROVED:  **DEAN** i,A? ! j y^*
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Blueprint Reading

IRN 602

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TOTAL CREDITS: 24 Hours (8 x 3)

PREREQUISITE(S): Ironworker Apprenticeship

L. PHTLOSOPHY/GOALS:

To provide apprentices with a preparatory overview of structural blueprints thereby enabling them to work from typical site, erection and shop drawings while under the supervision of a skilled tradesperson. To provide the necessary background for the next level of training.

H. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will:

- 1) Recognize the difference(s) between structural 'detailing' and mechanical 'drafting*.
- 2) Identify structural shapes, read dimensions and recognize typical building components appropriate to the needs of the trade.
- 3) Become familiar with the use of welding symbols, abbreviations, common dimensioning practices as well as the general types of information provided on the various drawings.

m. TOPICS TO BE COVERED:

Approximate Time

1. Course Introduction and Orientation
2. Standards for Orthographic Projection, Sectional, Auxiliary / Detail Drawings.
3. Basic Structural Shapes, their Dimensions and Terminology.
——Theory Test # 1 and Review——~
4. Use and Application of Common Welding Symbols
——Theory Test # 2 and Review ——
5. Introduction to Site / Erection Drawings
——Theory Test # 3 and Review——

TOTAL HOURS

24

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

General Assessment

Final Mark*

A = 85 to 100%

Tests 75%

B = 75to 84%

Assignments / Quiz(s) 25%

C = 60to 74%

Attendance (**See Attached)

D = 50to 59%

V. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following:

1. Written proof of the successful completion of a mathematics course with student outcomes and course topics that are at least 80% compatible with IRN 602.

<OR>

2. The successful challenge of all three IRN 602 theory tests and a resulting average mark of at least 75%.

VL REQUIRED STUDENT RESOURCES:

Scientific Calculator (Basic Math Functions plus Trig Ratios)

3 Pens - (1 blue, 1 black, 1 red)

Binder c/w Paper

Ironworker Texts

Steel Tape Rule (c w Imperial and Metric Scales)

VH. SPECIAL NOTES:

Students with special needs (eg physical limitations, visual impairments, hearing impairments, learning disabilities etc.) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

Attendance to all classes is mandatory and will be recorded on an Tiour-by-hour' basis using tL*; "Record of Attendance Form'.