

#493

SAULT COLLEGE OF APPLIED ARTS **AND** TECHNOLOGY

SAULT STE. MARIE, ON

**COURSE OUTLINE**

**COURSE TITLE: TRADE THEORY**

**CODE NO: IRN600**

**SEMESTER: APPRENTICESHIP**

**PROGRAM: IRONWORKER - BASIC**

**AUTHOR: P. MARTINSEN**

**DATE: OCTOBER 1994**

**PREVIOUS OUTLINE DATED: OCTOBER 1993**

**APPROVED:**



**Dean, School of Technical Trades**

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Date

0 COURSE NAME: TRADE THEORY

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TOTAL CREDIT HOURS: 80 HRS. (10 X 8)

PREREQUISITE(S): Ironworker apprenticeship

**I. PHILOSOPHY/GOALS:**

Apprentices will begin to develop theory techniques to practical applications used in the field.

**II. STUDENT PERFORMANCE OBJECTIVES:**

Upon successful completion of this course the student will:

have an understanding of several facets of the trade including safety, job preparation and use of tools.

**III. TOPICS TO BE COVERED:**

Approximate Time Frames  
(Optional)

- . protection for self and others
- . plan, prepare and set-up for the job
- . use and maintain hand and power tools
- . use and maintain torch
- . welding - gas, shield, metal arc
- . rig and hoist (fiber rope, knots)
- . erection
- . install and fasten
- . curtain wall
- . install and fabricate
- . ornamental components
- . reinforcing

COURSE NAME:

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**IV. LEARNING ACTIVITIES**

- . layout procedures
- . reinforcing procedures
- . safety
- . Department of Labour
- . Construction Safety Assoc.

**REQUIRED RESOURCES**

Ironworker Manuals

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

General Assessment

Final Mark

A = 85 - 100%

B = 75 - 84%

C = 60 - 74%

D = 50 - 59%

F = 0 - 49%

Theory Tests 60%

Assignments 10%

Final Exam 30%

A test will follow each section. Quizzes will be given from time to time. You will also be evaluated on homework assignments and dependability.

**VI. REQUIRED STUDENT RESOURCES**

Ironworker Manuals  
Paper, pens, pencils,  
Geometry Set  
Calculator

**VII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:**

**VIII. SPECIAL NOTES**

Students with special needs (eg. physical limitation, visual impairments, hearing impairments, learning disabilities) 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 the students.

Attendance is mandatory. All absenteeism will be recorded as required by the Ministry of Education and Training, Skills Development Department.