

#567

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: **TRADE PRACTICAL**

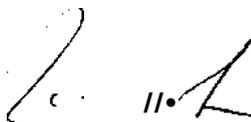
CODE NO: **IRN 701** SEMESTER: **APPRENTICESHIP**

PROGRAM: **INTERMEDIATE IRONWORKER**

AUTHOR: **P. MARTINSEN**

DATE: **January 1995** PREVIOUS OUTLINE DATED: **January 1994**

APPROVED:


Dean, School of Technical Trades

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Date

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CODE NO.: **IRN 701**

TOTAL CREDIT HOURS: 10

PREREQUISITE(S):

PHILOSOPHY/GOALS:

During this course apprentices will enhance their mechanical skills and by the use of proper procedures have a better concept in steel erection, rigging, curtain wall and reinforcing robotics.

STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will be able to:

1. Bend, lay-out and tie reinforcing steel.
2. Calculate the S.W.C. of wire rope, functions of rigging, testing by the Construction Safety Association, Safety in Rigging.
3. Splice Wire Rope.
4. Lay-out handrail and fabricate ornamental steel.

TOPICS TO BE COVERED:

1. Reinforcing
2. Cranes
3. Hoisting Apparatus
4. Structural Erection
5. Erection Techniques
6. Safety
7. Rigging
8. Lay-out
9. Fabrication
10. Welding
11. Rigging
12. Wire Rope

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IV. LEARNING ACTIVITIES

REQUIRED RESOURCES

Unloading and Sorting
Print Reading
Types of Tie
Reinforcing Bar Placing; Footings
Re-Bar Placing; Columns
Re-Bar Placing; Walls
Re-Bar Placing; Beams
Reading Specific Drawings,
Schedules and Detail Sheets
Re-Bar Placing; Joists, Slabs,
Plates
Inspection

Wire Rope
Handling
Wire Rope Attachments
Wire Rope Splicing
Hooks
Shackles
Chokes and Slings
Guy Lines
Blocks and Tackle
Use of Portable Hoisting
Equipment

Welding
Selecting Electrodes
Selecting and Using Welding
Equipment

Erection General
Steel Erection
Methods of Erection
Transportation

Fitting Up

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

Class projects, graded on efficiency, skill, precision wire rope splicing, lay-out, fabrication, welding.

Attendance and attitude 15%.

VI. REQUIRED STUDENT RESOURCES

Tools, safety glasses, hard hats, etc.

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.