

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARD2, ON

COURSE OUTLINE

TRADE CALCULATIONS

COURSE TITLE:

CODE NO: IRN 603

SEMESTER: N/A

PROGRAM: IRONWORKER - BASIC

AUTHOR: D. SOCCHIA

DATE: Oct 1994

PREVIOUS OUTLINE DATED: Oct 1993

APPROVED: 
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TOTAL CREDITS: 24 Hours (8 x 3)

PREREQUISITTE(S): Ironworker Apprenticeship

L PHTLOSOPHY/GOALS:

To provide apprentices with the background and academic training necessary to solve job related problems that may require (or at least be made easier to resolve) through the use of mathematical calculations giving due consideration to the degree of accuracy required by the said problem(s).

H. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will:

- 1) Identify and select mathematical formula appropriate to the needs of the tradesperson.
- 2) Perform typical job related calculations involving linear measurements, fractions, decimals, metric - imperial type conversions plus areas of standard geometric shapes.
- 3) Recognize the difference(s) between Trade Calculations' and the traditional 'Scientific Math'

DX TOPICS TO BE COVERED:

Approximate Time

- 1. Course Introduction and Orientation
- 2. Add, Subtract, Multiply and Divide Fractions
- 3. Conversion of Imperial Feet, Inches and Fractional Inches to Decimals of a Foot.
——Theory Test # 1 and Review ——
- 4. Use of Imperial and Metric Units of Measurement
- 5. Conversion between Imperial and Metric Units.
— Theory Test # 2 and Review —~
- 6. Surface Area for Squares, Circles, Triangles and Cylinders
~~~~ 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%

B = 75to 84%

C = 60to 74%

D = 50to 59%

Tests

75%

Assignments / Quiz(s)

25%

Attendance (\*\*See Attached)

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 603.

<OR>

2. The successful challenge of all three IRN 603 theory tests and a resulting average mark of at least 75%.

VL REQUEUED 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 )

VIL 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 'hour-by-hour' basis using the Hecord of Attendance Form'.