

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: **TRADE CALCULATIONS**

CODE NO: **IRN 603** SEMESTER: **N / A**

PROGRAM: **IRONWORKER - BASIC**

AUTHOR: **D. SOCCHIA**

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

APPROVED: ***fj M'*** 
Dean, School of Technical Trades

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Dor.°

COURSE NAME: TRADE CALCULATIONS CODE NO. i_{RN} 603

TOTAL CREDIT HOURS: 24 (8 x 3hrs)

PREREQUISITE(S): Ironworker Apprenticeship

I. PHILOSOPHY/GOALS:

To provide apprentices with the necessary background and academic training to solve job related problems that require, or are made easier to handle thru the use of mathematical calculations. Secondly, to provide the necessary background for the next level of training.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

- 1) Identify and select mathematical formula appropriate to the needs of the trade.
- 2) Perform typical job related calculations involving linear measurements, fractions, decimals, metric - imperial type conversions, areas of standard geometric shapes as well as the use of Pythagorean's Theorem.

III. TOPICS TO BE COVERED:

- | | |
|-------------------------------------------------------------------------------------|-------|
| 1. Course Introduction and Orientation | 1 Hr. |
| 2. Multiplication, Division, Addition and Subtraction of Common Fractions. | 3 Hrs |
| 3. Conversion of Imperial Feet, Inches and Fractional Inches to Decimals of a Foot. | 3 Hrs |
| 4. Use of Imperial and Metric Units of Measurement. | 3 Hrs |
| 5. Conversion between Imperial and Metric Units. | 3 Hrs |
| 6. Areas of Squares, Circles, Triangles and Cylinders. | 3 Hrs |
| 7. Use and Application of Pythagorean's Theorem. | 3 Hrs |
| *** Tests and/or Quiz(s) | 5 Hrs |

NOTE: The instructor reserves the right to modify and / or change course objectives and topics in order to better serve the needs of the class.

.COURSE NAME: TRADE CALCULATIONS

CODE NO. IRN 603

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

General Assessment			* Final Mark	
A	85	100	Tests	75 %
8	75	84	Homework and Quiz(s)	25 %
C	60	74		
D	50	59		
F	0	49 %	TOTAL	100 %

REQUIRED STUDENT RESOURCES:

Scientific Calculator
3 Pens - (1 blue, 1 black, 1 red
Binder c/w paper
Ironworker Texts.
Steel Tape Rule c/w Imperial and Metric Scales

SPECIAL NOTES:

Attendance to all classes is mandatory and will be recorded on an hour-by-hour basis using the 'Record of Attendance Form'.

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

General Assessment

A == 85 - 100 %
B == 75 - 84 %
C == 60 - 74 %
D == 50 - 59 %
F = 0 - 49 %

* Final Mark

Tests 75 %
Homework and Quiz(s) 25 %
TOTAL 100 %

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