

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: TRADE CALCULATIONS

CODE NO. : PIP0400 **SEMESTER:** N/A

PROGRAM: INTRO TO PLUMBER & STEAMFITTER TRADES

AUTHOR: BRIAN MICK

DATE: SEPT. **PREVIOUS OUTLINE DATED:** N/A
2002

APPROVED:

DEAN **DATE**

TOTAL CREDITS: 2

PREREQUISITE(S): GRADE 10 LEVEL MATH & ENGLISH

LENGTH OF COURSE: 8 WEEKS – 16 HOURS

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For additional information, please contact Pat Gibbons, Dean
Apprenticeship & Trades
(705) 759-2554, Ext. 656

I. COURSE DESCRIPTION:

This curriculum is designed to provide the student with an introduction to calculations used in the steamfitter and plumber trades.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Solve basic mathematical calculations used in the Piping Trades.
Potential Elements of the Performance:
 - Analyze the problem
 - Determine the correct response required to solve the problem
 - Apply the applicable calculations
2. Solve piping systems calculations.
Potential Elements of the Performance:
 - Identify the calculation required
 - Apply the correct formula

III. TOPICS:

1. Basic Arithmetic
2. Areas
3. Conversions
4. Percentage Slope on Piping
5. Offset Problems
6. Bending Calculations

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Scientific Calculator
Pencils/Paper

V. EVALUATION PROCESS/GRADING SYSTEM:

Final Grade based on Test(s) administered during course.

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A	85 - 100%	
B	75 - 84%	
C	60 – 74%	
D	50 – 59%	
FAIL	0 – 49%	

VI. SPECIAL NOTES:Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.