

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: MATHEMATICS

CODE NO.: MTH 731-2

PROGRAM: PLUMBER & STEAMFITTER APPRENTICES - INTERMEDIATE

SEMESTER:

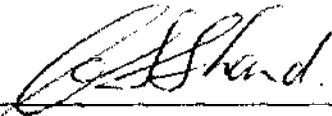
DATE: SEPTEMBER 1986

AUTHOR: G. DISANO

NEW,

REVISION: ^

APPROVED: _____



Chairperson

Date

MATHEMATICS

MTH 731-2

Course Name

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PHILOSOPHY/GOALS:

The intermediate mathematics course for plumbing and steamfitting apprentices should review the fundamental arithmetic operations taught in the basic course. This should be followed by an introduction to the study of practical geometry (both plane and solid) and the fundamentals of triangle trigonometry. Every effort should be made by the instructor to make the topics as relevant as possible to the trade.

METHOD OF ASSESSMENT (GRADING METHOD):

Periodic tests or drills as time permits. A final comprehensive test is optional.

TEXTBOOK(S):

OBJECTIVES:

COURSE OUTLINE

MTH731

MATHEMATICS

(Plumber and Steamfitter Apprentices - Intermediate)

#

Topic Number	Periods	Topic Description	Reference
I		<u>Review of Basics</u> <ul style="list-style-type: none">- square root- fractions - three types of fractions<ul style="list-style-type: none">- addition- subtraction- multiplication- division- decimals - addition<ul style="list-style-type: none">- subtraction- multiplication- division- percents- converting - fractions to decimals & percents<ul style="list-style-type: none">- decimals to fractions & percents- percents to fractions & decimals- percentage problems	
II		<u>Mensuration</u> <ul style="list-style-type: none">- perimeters - squares<ul style="list-style-type: none">- rectangles- circles- areas - squares<ul style="list-style-type: none">- rectangles- triangles- circles- surface areas - cubes<ul style="list-style-type: none">- rectangular solids- cylinders- spheres- volumes - cubes<ul style="list-style-type: none">- rectangular solids- cylinders- spheres- capacities- flow rates	
III		<u>Triangle Trigonometry</u> <ul style="list-style-type: none">- right triangles- Pythagorean Theorem- trigonometric ratios - sin, cos & tan	