

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: MATHEMATICS

CODE NO.: MTH 631-2

PROGRAM: PLUMBER & STEAMFITTER APPRENTICES •- BASIC

SEMESTER:

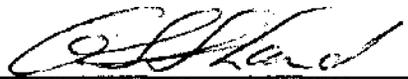
DATE: OCTOBER 1986

AUTHOR: G. DISANO

NEW:

REVISION: X

APPROVED:



Chairperson

Date

MATHEMATICS

Course Name

MTH 631-2

Course Number

PHILOSOPHY/GOALS:

The mathematics course for basic plumbing and steamfitting apprentices is essentially a review of the arithmetic operations common to the working world. This should be followed by an introduction to the study of practical geometry, and time permitting, an introduction to trigonometry which will serve as a basis for later work on offsets. Every effort should be made by the instructor to make the topics as relevant to the trade

METHOD OF ASSESSMENT (GRADING METHOD):

^ possible.

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

TEX7"BOOK^S^*

OBJECTIVES:

COURSE OUTLINE

MTH631

MATHEMATICS

(Plumber and Steamfitter Apprentices - Basic)

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCE
		<u>Square Roots</u> <ul style="list-style-type: none">- square roots- formal method of determining roots	
II		Common Fractions <ul style="list-style-type: none">definitionsthree types of common fractionsoperations Of - addition<ul style="list-style-type: none">- subtraction- multiplication- divisionorder of operations	
III		Decimal Fractions <ul style="list-style-type: none">- decimal numeration and notation- operations of - addition<ul style="list-style-type: none">- subtraction- multiplication- division	
IV		<u>Percents</u> <ul style="list-style-type: none">- percentages- converting - fractions to decimals & percents<ul style="list-style-type: none">- decimals to fractions & percents- percents to fractions & decimals- percentage problems	
^		<u>Mensuration</u> (An Introduction) <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	

continued ...

<i>TOPIC NO.</i>	<i>PERIODS</i>	<i>TOPIC DESCRIPTION</i>	<i>REFERENCE</i>
		<ul style="list-style-type: none"> - volumes - cubes <li style="padding-left: 2em;">- rectangular solids <li style="padding-left: 2em;">- cylinders <li style="padding-left: 2em;">- spheres - capacities - flow rates 	
VI		<u>The Right Triangle</u> <ul style="list-style-type: none"> - measurement of angles - the Pythagorean Theorem 	

Disano, October 1986