

808-2

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE. TRADE THEORY INTERMEDIATE

CODE NO.: STM 031 SEMESTER: 3 (8 Weeks)

PROGRAM: STEAM PRE-APPRENTICESHIP PROGRAM

AUTHOR: BRIAN MICK

DATE: OCT/95 PREVIOUS OUTLINE DATED: NEW

APPROVED:

DEAN



DATE

TOTAL CREDITS 13

PREREQUISITE(S): STM 021

I. PHILOSOPHY/GOALS:

To provide the student with knowledge of hot water systems, steam, steam boilers and related systems based on ministry guidelines.

II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):

Upon successful completion of this course the student will:

- 1) Understand zones as applied to hot water systems
- 2) Understand heat and heat transfer units
- 3) Know different types of steam, steam pressures, BTU
- 4) Calculations applied to steam, steam boilers and controls

III. TOPICS TO BE COVERED:

**Approximate Time
Frames (Optional)**

- 1) Methods of zoning
- 2) Converters and exchangers
- 3) Steam boilers, low and high pressure steam, types of steam systems, steam boiler controls and steam traps
- 4) Calculations involving steam tables, calculations involving gas laws

IV. LEARNING ACTIVITIES/REQUIRED RESOURCES

Topic/Unit - _____

Learning Activities:

Resources:

Topic/Unit - _____

Learning Activities:

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

VI. 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:

VII. REQUIRED STUDENT RESOURCES

Other modules and handouts supplied by college

VIII. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

IX. SPECIAL NOTES

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) 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.