

807-1

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ON**

**COURSE OUTLINE**

COURSE TITLE: TRADE SHOP - BASIC

CODE NO.: STM 020 SEMESTER: 2 (8 Weeks)

PROGRAM: STEAM PRE-APPRENTICESHIP PROGRAM

AUTHOR: BRIAN MICK

DATE: OCT/95 PREVIOUS OUTLINE DATED: NEW

APPROVED:

  
DEAN

JJOA  
DATE

TOTAL CREDITS 8

PREREQUISITE(S): No Prerequisite

**I. PHILOSOPHY/GOALS:**

The student will apply theoretical knowledge and practical skills with accuracy and safety consistent with a working environment

**II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):**

Upon successful completion of this course the student will be able to:

- 1) Install steel pipe to given and calculated measurements with accuracy and water tightness
- 2) Install copper pipe to given and calculated measurements with accuracy and water tightness

**III. TOPICS TO BE COVERED:**

**Approximate Time  
Frames (Optional)**

- 1) Use of pipe threading equipment
- 2) Use of oxy-act. for hard solder (silfos)
- 3) Use of B-tank for soft solder
- 4) Use of roll grover for grooved joints
- 5) Fabrication of concentric reducers

**IV. LEARNING ACTIVITIES/REQUIRED RESOURCES**

**Topic/Unrt** - Steel Pipe

**Learning Activities:**

Measuring  
Calculating pipe length  
Measurements using trade specific allowances  
Cutting  
Reaming  
Threading  
Grooving and welding pipe  
Layout of fabricated fitting on steel pipe  
\*Same as STM 021

**Resources:**

student modules  
pipefitters handbook  
instructor

**Topic/Unit** - Copper Pipe

**Learning Activities:**

Measuring  
Calculating pipe length measurement using trade specific allowances  
Cutting reaming soldering using proper techniques

**Resources:**

student modules on solders and fluxes  
instructor

**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**

Safety boots (CSA approved - high top)  
Safety glasses  
Safety equipment mandatory for admittance to shop area  
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.