COURSE: WLD 103

EFFECTIVE DATE: January 1996
NEXT REVIEW DATE: January 1998

TITLE: Print Reading I

CREDITS: 1

CONTACTS: CLASS - LAB - TOTAL
0 3 1

PREREQUISITES: NONE

DESCRIPTION: This is a basic course, which includes the fundamentals of print reading, the meaning of lines, views, dimensions, notes, specifications, and structural shapes. Welding symbols and assembly drawings as used in fabrication work are also covered.

TEXTBOOK(S) OR ALTERNATIVE: Blueprint Reading for Welders 3rd Edition. A.E. Bennett & Louis J. Siy by Delmar Publishers

MATERIALS (specifying those to be purchased by student):

COLLATERAL READING:

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):

Attendance:
Students must attend a minimum of 80% of the meetings of each class. If students miss more than 20% of a class, the student will be dropped automatically by the instructor, and assigned a grade of “F”. If the student wishes to withdraw from the class he/she must complete a withdrawal form found in Student Development Office. A grade of "W" will be assigned up to midterm. After midterm a grade of "WF" will be assigned if the student is not passing the course.

Tardy:
Realizing that regular attendance in classes is a contributing factor toward academic success, it is also important that students arrive promptly for classes. Arriving late for a class not only disrupts a class in progress but interrupts the learning process. A tardy is defined as the arrival of the student to class after attendance has been taken. Three tardies will constitute one full absence. It is the student’s responsibility to notify the instructor after class that he/she arrived late for class. If a student leaves early from class it is also counted.
Academic Dishonesty:
CMTC honors the state TEC Student Code with regard to Academic Dishonesty. Students should read pages 9-10 of the Student Code and Grievance Procedure Book. Copies of the Student code are available in Student Services. Academic Dishonesty will not be tolerated.

Classroom Etiquette:
An integral part of an education is developing a sense of integrity and responsibility not only toward ourselves but also toward others. In the classroom, as on the job or in your home, exhibiting appropriate behavior reflects on your maturity. Arriving late to class, being unprepared, inappropriate talking while class is in session, etc., negatively reflect on you and your fellow students. Please be considerate.

RESOURCES (A-V, persons, tools/equipment):
PAT - Programmed Audio/Visual Training by (Hobart School of Welding Technology)

COURSE TOPICAL OUTLINE (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.

I. Introduction to Blueprint Reading for Welders and Fitters
   1. Purpose
   2. Make up of prints

II. Mathematics for Welders and Fitters
   1. Purpose
   2. Fractions, decimals, and degrees

III. Metric and Metric Conversion
   1. Purpose

IV. Review of Welding Symbols
   1. Purpose
   2. Types

V. Interpretation of Welding Information
   1. Purpose

VI. Visualization of Weldment from Engineering drawing
   1. Types
   2. Purposes
VII. Scale drawings and tolerances
   1. Why tolerances are used

VIII. Auxiliary Views and Resolved Sections
   1. Purpose

IX. Surface and Centerline Relationships

X. Bill of Material
   1. Importance
   2. Estimating

XI. Set Up Tools and Their Use

XII. Tool Calibration

XIII. Maintenance of Set Up Tools

XIV. The Transit
   1. Uses
   2. Purpose

XV. Set Up Application

XVI. Responsibilities

**OBJECTIVES OF COURSE:**
1. Learn to read drawings
2. Learn to apply drawings
3. Learn welding symbols

**INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:**
Instructor will be lecturing and using visual aids.

**EVALUATIVE METHODS TO APPRAISE OBJECTIVES:**
Tests will be given on review questions.