METROPOLITAN COMMUNITY COLLEGES
New Course Rationale Form

Origin: BR ___ BTC X LV ___ MW ____ PV ___ Prepared by: Tim Gill

Discipline: WELD

Proposed Title of Course: Management Skills for the Trades

Rationale for Course Addition:
Implementation of American Welding Society (AWS) curriculum for the purpose of a new degree/certificate program.

Student Population to be served:
Students studying and preparing for Industrial Maintenance, Fabrication Industry, Construction Industry and General Manufacturing.

Transferability (list with whom you checked):

Is there a similar course in another area: Yes [ ] No [X] If yes, explain why that course cannot be utilized.

List requirements for additional equipment or remodeling, and estimated cost.
None

List requirements for supplies and estimated cost.
None

Attach Course Information Form with Course Outline Form
COURSE INFORMATION FORM

DISCIPLINE  WELD
COURSE TITLE  Management Skills for the Trades
CR.HR  3  LECT HR  3  LAB HR  CLIN/INTERN HR  CLOCK HR

CATALOG DESCRIPTION
Student will learn and apply different training methods to meet the requirements of different learning styles. Basic principles of management and the psychology associated with working relationships will be emphasized throughout the course material. Skills in project cost estimation and facilities management will also be developed.

PREREQUISITES
WELD 231; and one WELD 100 level lecture and lab or entry level requirements of other campus departments

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Relate industrial psychology issues to the work environment.
2. Integrate the basic principles of management into the welding industry.
3. Demonstrate the use of training methods and materials.
4. Describe the various learning styles of employees.
5. Demonstrate the knowledge of training evaluation and assessment.
6. Demonstrate the procedure of equipment specification and purchase.
7. Demonstrate the process of project estimation.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

Life-Long Learning: Attributes of an Awareness of the Convergence of Knowledge
2. Apply learned skills to real world interactions  (1-7)
3. Synthesize information to facilitate application  (1-5)

Quantitative Literacy and Mathematical Analysis
E. Interpret and apply numeric information embedded in text or real-life situations  (6,7)
F. Interpret and apply numeric information presented in tables, charts, and graphs  (6,7)
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

The student will demonstrate:
1. academic competency in performing welding operations.
2. professional employability skills as applied to a welding environment.
3. critical thinking and problem-solving skills and adapt these skills to welding applications.
4. supervisory and managerial skills as applied to the welding industry.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Formative and summative tests (1-7)
COURSE OUTLINE FORM

CATALOG NO.  WELD 290

DISCIPLINE  WELD

COURSE TITLE: Management Skills for the Trades

Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Employee relations
   A. Industrial psychology
   B. Basic principles of management

II. Employee training
    A. Methods and materials
    B. Learning styles
    C. Evaluation and assessment

III. Facilities management
     A. Equipment specification and purchase
     B. Material specification and purchase

IV. Project cost estimation
    A. Drawing interpretation
    B. Material weight and cost
    C. Metal finishing
    D. Product delivery