DATE SUBMITTED | 12/5/11
DATE DICC APPROVED | 3/27/2012
CATALOG NO. | WELD 105
DATE LAST REVIEWED | 

COURSE INFORMATION FORM

DISCIPLINE | WELD
COURSE TITLE | Welding for the Trades
CR.HR | 3
LECT HR | 1
LAB HR | 4
CLIN/INTERN HR | 
CLOCK HR | 

CATALOG DESCRIPTION

This course provides an introduction to the flame cutting and plasma cutting processes, brazing, stick (arc) welding and MIG welding. This is not a code welding course but students will learn to identify and correct welding problems.

PREREQUISITES

None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

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

1. Identify and apply safe practices with welding and cutting processes.
2. Describe the process and cut various metals with the flame cutting and plasma cutting processes.
3. Discuss brazing techniques and join similar and dissimilar metals with the brazing process.
4. Describe stick welding techniques and operate stick welding equipment, producing sound weldments.
5. Describe MIG welding techniques and operate MIG welding equipment, producing sound weldments.
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.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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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. An understanding of welding and cutting principles of operation.

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

1. Formative and summative assessments (1 – 5)
2. Performance tests (2 – 5)
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. Flame cutting  
   A. Safety  
   B. Procedures and techniques  

II. Plasma cutting  
   A. Safety  
   B. Materials  
   C. Procedures and techniques  

III. Brazing  
   A. Safety  
   B. Materials  
   C. Procedures and techniques  

IV. Stick welding  
   A. Safety  
   B. Electrodes  
   C. Procedures and techniques  

V. MIG Welding  
   A. Safety  
   B. Procedures and techniques