

Welding
ASSESSMENT OF STUDENT LEARNING

Measures	Gen Ed #1	Gen Ed #2	Gen Ed #3	Gen Ed #4	Gen Ed #5	Program Outcome #1	Program Outcome #2	Program Outcome #3	Program Outcome #4	Program Outcome #5	Program Outcome #6	Program Outcome #7
E-portfolio	X		X									
CAAP	X	X										
Student Satisfaction Survey	X	X	X									
Advisory Board Survey	X	X	X									
All Welding State Certifications		X		X								
WET1135 SMAW Welding Theory							X	X	X			
WET1140, 2445, 2555, 2700, 2710 & 2720 SMAW, GMAW, GTAW and Pipe Welding Labs		X		X						X	X	
WET2435 GMAW & GTAW Theory	X											X
CAD1110 CAD I	X	X		X			X	X				
WET2670 Codes and Procedures	X	X		X		X				X	X	

Date created: 5-8-06

Date modified: October 2008

PROGRAM OUTCOMES AND GOALS

1. Be able to prepare cost estimates for specific projects.
2. Utilize drawing and print skills and knowledge to depict projects in orthographic and/or isometric projection with proper detailing and dimensioning.
3. Correctly apply and/or interpret welding symbols on prints.
4. Demonstrate correct usage of print details, dimensions, specifications, and welding symbols in designing projects.
5. Select proper welding processes, equipment and accessories, and follow appropriate welding procedures required to manufacture or fabricate projects.
6. Demonstrate the ability to utilize the appropriate welding processes in accordance with the industrial codes, standards, and specifications that apply to specific jobs.
7. Be able to estimate project cost, compare it to the actual cost and make recommendations for improvement.

GENERAL EDUCATION LEARNING OUTCOMES

1. **Communicate effectively**
2. **Evaluate arguments in a logical fashion**—Competence in analysis and logical argument are explicit learning goals for most general education programs, although these skills go by a variety of names (e.g., critical thinking, analysis, logical thinking, etc.). **Students will be able to demonstrate competence in problem solving in communication, mathematics, and in team settings.**
3. **Demonstrate an understanding of cultural differences and the knowledge of how to work effectively in a global and diverse culture and society.**
4. **Employ the methods of inquiry characteristic of natural sciences, social sciences, mathematics, and the arts and humanities**; general education introduces students to methods of inquiry in several fields of study and thereby prepares students to integrate information from different disciplines.
5. **Engage in our democratic society**—one of the overarching goals of general education is to prepare students to be active and informed citizens; the development of a disposition to participate in and contribute to our democracy is of equal importance to the goal of having the skills to do so intelligently.

Learning Outcomes 1-3 will be measured for all students through the CAAP assessment (Writing, Mathematics, and Critical Thinking) and through the e-portfolio (Writing and Cultural Diversity). Outcomes 1 and 2 will also be assessed through course and program assessment for applied degree programs.

Learning Outcomes 1-5 will be assessed in specific courses included in the Transfer Module.