

**Eastern WV Community & Technical College
Master Course Record**

Course Prefix and Number: WFWD 101
Course Title: Welding Fundamentals
Recommended Transcript Title: Welding Fundamentals
Date Approved/Revised:
Credit Hours: 4 Contact hours per week (Based on 15 week term): 6.5 Lecture: 2 hrs./week Lab: 4.5 hrs./week
Prerequisite: Corequisite: Pre/Corequisite:
Grading Mode: Credit/No Credit
Catalog Description: Welding Fundamentals is designed to provide students with an understanding of welding techniques and safety procedures. Students will be introduced to Oxyfuel cutting and shielded metal arc welding (SMAW) techniques by both lecture and hands-on experiences. The materials presented are suitable for new students as well as experienced welders wishing to increase their proficiencies.
Course Outcomes: Students will: <ul style="list-style-type: none"> • Discuss safety procedures and personal protective equipment utilized in the welding industry • Demonstrate safe use of oxygen/acetylene cutting of metals • Demonstrate various types of welding techniques • Demonstrate oxyfuel cutting • Demonstrate Air carbon arc cutting and gouging • Discuss base metal preparation • Demonstrate use of a plasma cutter • Discuss and demonstrate all aspects of SMAW
Implementation Cycle: Fall/Spring
Role in College Curriculum: (Check all that apply) <input type="checkbox"/> General Education Core (Specify category) <input type="checkbox"/> Technical Core (Specify Program) <input type="checkbox"/> Restricted Elective (Specify Program) <input type="checkbox"/> General Elective <input checked="" type="checkbox"/> Workforce Education <input type="checkbox"/> Other (Please specify)
Course Fee: None
Instructor's Qualifications: Should have industrial welding certifications and/or 5 years of welding experience. A CWI (Certified Welding Inspector) certification is preferred.
Expanded Course Description (provides details regarding major course concepts, target audience, delivery format, etc.) Welding Fundamentals is designed to provide students

with an understanding of welding techniques and safety procedures. Students will be introduced to the welding field by both lecture and hands-on experiences. The materials presented are suitable for new students as well as experienced welders wishing to increase their proficiencies. Students will learn to utilize oxyfuel cutting and shielded metal arc welding (SMAW) techniques. Welding certifications can be obtained by gaining knowledge thru classroom activities, and by becoming proficient with actual welding. This course is designed to help students obtain American Welding Society approved welding certifications, and is aligned with NCCER 29101-15 (1862) course outcomes.

Prepared by:

Sherry Watts, Associate Dean of Workforce Education 11/25/15

Name, Title

Date

Approved Per LOT Minutes

Dean

Date