

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

Course Prefix and Number: WFWD 104
Course Title: Welding Aluminum
Recommended Transcript Title: Welding Aluminum
Date Approved/Revised: September 21, 2015
Credit Hours: 4 Contact hours per week (Based on 15 week term): 6.5 Lecture: 2 hrs./week Lab: 4.5 hrs./week
Prerequisite: WFWD 102 or permission from the instructor Corequisite: Pre/Corequisite:
Grading Mode: Credit/No Credit
Catalog Description: Welding Aluminum is designed to provide students with an understanding of welding techniques and safety procedures for use with materials constructed of aluminum. Students will utilize gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW) for use with structural aluminum and aluminum pipe. Students will receive both lecture and hands-on training. The materials presented are suitable for experienced students wishing to increase their proficiencies.
Course Outcomes: Students will: <ul style="list-style-type: none"> • Discuss safety procedures and personal protective equipment utilized when welding aluminum • Demonstrate welding aluminum plate utilizing GMAW • Demonstrate how aluminum is prepared for welding • Demonstrate GTAW for aluminum plate • Demonstrate GTAW for use with aluminum pipe • Discuss different considerations for aluminum welding
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 Aluminum is designed to provide students with an understanding of welding techniques and safety procedures for use with materials constructed of aluminum. Students will utilize gas metal arc welding (GMAW), and gas

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Date Prepared/Revised: 8/24/15

Date Course Approved by LGE: 09/21/15; 12/21/15

tungsten arc welding (GTAW) for use with structural aluminum and aluminum pipe. Students will receive both lecture and hands-on training. The materials presented are suitable for experienced students wishing to increase their proficiencies. 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 29401-10 (1865) course outcomes.

Prepared by:

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

Name, Title

Date

Approved Per LOT Minutes

Dean

Date