

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

<b>Course Prefix and Number: WFWD 103</b>
<b>Course Title:</b> Welding Pipe
<b>Recommended Transcript Title:</b> Welding Pipe
<b>Date Approved/Revised:</b> September 21, 2015
<b>Credit Hours: 4</b> <b>Contact hours per week (Based on 15 week term): 6.5</b> <b>Lecture:</b> 2 hrs./week <b>Lab:</b> 4.5 hrs./week
<b>Prerequisite:</b> WFWD 102 or permission from the instructor <b>Corequisite:</b> <b>Pre/Corequisite:</b>
<b>Grading Mode:</b> Credit/No Credit
<b>Catalog Description:</b> Welding Pipe is designed to provide students with an understanding of welding techniques and safety procedures for use with various piping systems. Students will utilize shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW) and gas tungsten arc welding (GTAW) for use with piping. Students will receive both lecture and hands-on training. The materials presented are suitable for experienced students wishing to increase their proficiencies.
<b>Course Outcomes:</b> Students will: <ul style="list-style-type: none"> <li>• Discuss safety procedures and personal protective equipment utilized in the pipe welding industry</li> <li>• Demonstrate open root pipe welding</li> <li>• Demonstrate how pipe is prepared for welding</li> <li>• Demonstrate SMAW for various pipe materials</li> <li>• Demonstrate GMAW for various pipe materials</li> <li>• Demonstrate FCAW for various pipe materials</li> <li>• Demonstrate GTAW for various pipe materials</li> <li>• Discuss various piping methods</li> </ul>
<b>Implementation Cycle:</b> Fall/Spring
<b>Role in College Curriculum: (Check all that apply)</b> <input type="checkbox"/> <b>General Education Core (Specify category)</b> <input type="checkbox"/> <b>Technical Core (Specify Program)</b> <input type="checkbox"/> <b>Restricted Elective (Specify Program)</b> <input type="checkbox"/> <b>General Elective</b> <input checked="" type="checkbox"/> <b>Workforce Education</b> <input type="checkbox"/> <b>Other (Please specify)</b>
<b>Course Fee:</b> None
<b>Instructor's Qualifications:</b> 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 Pipe is designed to provide students with an understanding of welding techniques and safety procedures for use with various piping systems. Students will utilize shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW) and gas tungsten arc welding (GTAW) for use with piping. 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 29301-10 (1862) course outcomes.

Prepared by:

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

Name, Title

Date

Approved Per LOT Minutes

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