PAY
The median annual wage for welders was $42,490 in May 2019.

JOB OUTLOOK
Employment of welders is projected to grow 3 percent from 2018 to 2028, slower than average for all occupations. Skilled welders with up-to-date training should have good job opportunities.


ABOUT THE PROGRAM
The Welding Technology Associate of Applied Science degree and College Certificate allow an individual to become entrepreneurial while adding diversity to their experience base. This program offers many opportunities for persons to make a sustainable living wage doing something that they enjoy. Consider a career in welding and start your training with us at WCCCD!

WHAT DO WELDERS DO?
Welding is the most common way of permanently joining metal parts. In this process, heat is applied to metal pieces, melting and fusing them to form a permanent bond. Because of its strength, welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications, and thousands of other manufacturing activities. Welding also is used to join beams in the construction of buildings, bridges, and other structures and to join pipes in pipelines, power plants, and refineries.

WHERE DO THEY WORK?
Welders work in a wide variety of industries and settings, from car racing to manufacturing. The work that welders do and the equipment they use vary, depending on the industry. The most common and simplest type of welding today, arc welding, uses electrical currents to create heat and bond metals together—but there are more than 100 different processes that a welder can use. The type of weld is normally determined by the types of metals being joined and the conditions under which the welding is to take place.
Recommended Sequence of Courses

WLT: General Welding – Level 1 (WLTGW-CERT):  
College Certificate

<table>
<thead>
<tr>
<th>CR. No.</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FM 106</td>
<td>Safety and Support Service</td>
<td>3</td>
</tr>
<tr>
<td>WLT 101</td>
<td>Arc/Oxygen – Acetylene Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLT 103</td>
<td>Gas Tungsten Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>SEMESTER TOTAL</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

| SEMESTER 2 |                                    |         |
| ENG 119    | English I                           | 3       |
| MAT 121    | Technical Mathematics I             | 3       |
| DRT 101    | Blueprint Reading                   | 3       |
| SEMESTER TOTAL |                      | 10      |

| SEMESTER 3 |                                    | 9       |
| WLT 104    | Tungsten Inert Gas Welding          | 5       |
| WLT 105    | MIG/Flux-Core/Plasma Welding        | 5       |
| WLT: GENERAL WELDING |                      | 32      |

Note: Certificate total hours may not include prerequisites.

WLT: Advanced Welding – Level 2 (WLTAW-CERT):  
College Certificate

<table>
<thead>
<tr>
<th>CR. No.</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 122</td>
<td>Technical Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>WLT 102</td>
<td>Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLT 106</td>
<td>Welding Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>SEMESTER TOTAL</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

| SEMESTER 2 |                                    |         |
| MAN 120   | Survey of Material Science          | 3       |
| ENG 134   | Technical Communications            | 3       |
| Elective: Welding |                              |         |
| WLT 107   | Welding Fabrication II              | 3       |
| SEMESTER TOTAL |                      | 12      |

| SEMESTER 3 |                                    |         |
| Elective: Welding |                              |         |
| WLT 112   | Troubleshooting and Repair          | 3       |
| SEMESTER TOTAL |                              | 6       |

| SEMESTER 4 |                                    |         |
| ENG 134   | Technical Communications            | 3       |
| Elective: Humanities |                              |         |
| MAT 122   | Technical Mathematics II            | 3       |
| WLT 106   | Welding Fabrication                 | 3       |
| SEMESTER TOTAL |                              | 12      |

| SEMESTER 5 |                                    |         |
| Elective: Natural Science w/ Lab |                              | 4       |
| Elective: Social Science         | 3       |
| WLT 210   | Weld Certification                  | 5       |
| SEMESTER TOTAL |                              | 12      |

| WELDING AAS: PROGRAM TOTAL | 64 |

WLT: Specialized Welding – Level 3 (WLTSW-CERT):  
College Certificate

<table>
<thead>
<tr>
<th>CR. No.</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAN 110</td>
<td>Manufacturing Processes I</td>
<td>3</td>
</tr>
<tr>
<td>WLT 201</td>
<td>Specialized Welding Process</td>
<td>3</td>
</tr>
<tr>
<td>WLT 208</td>
<td>Pipe Welding</td>
<td>5</td>
</tr>
<tr>
<td>SEMESTER TOTAL</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

| SEMESTER 2 |                                    |         |
| PHY 115   | Fundamentals of Physics             | 4       |
| WLT 209   | Advanced Pipe Welding               | 5       |
| SEMESTER TOTAL |                              | 9       |

| SEMESTER 3 |                                    |         |
| WLT 202   | Quality Testing – Welding           | 3       |
| WLT 210   | Weld Certification                  | 5       |
| SEMESTER TOTAL |                              | 8       |

WLT: SPECIALIZED WELDING  
CERTIFICATE TOTAL | 28 |

Note: Certificate total hours may not include prerequisites.

Welding Technology: (WELT-AAS)  
Associate of Applied Science

<table>
<thead>
<tr>
<th>CR. No.</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRT 101</td>
<td>Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>WLT 101</td>
<td>Arc/Oxygen – Acetylene Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLT 103</td>
<td>Gas Tungsten Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>SEMESTER TOTAL</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

| SEMESTER 2 |                                    |         |
| ENG 119   | English I                           | 3       |
| MAT 121   | Technical Mathematics I             | 3       |
| PS 101    | American Government                 | 3       |
| WLT 102   | Arc Welding                         | 5       |
| SEMESTER TOTAL |                              | 14      |

| SEMESTER 3 |                                    |         |
| ENG 134   | Technical Communications            | 3       |
| Elective: Humanities |                              |         |
| MAT 122   | Technical Mathematics II            | 3       |
| WLT 106   | Welding Fabrication                 | 3       |
| SEMESTER TOTAL |                              | 12      |

| SEMESTER 4 |                                    |         |
| Elective: Natural Science w/ Lab |                              | 4       |
| Elective: Social Science         | 3       |
| WLT 210   | Weld Certification                  | 5       |
| SEMESTER TOTAL |                              | 12      |

| WELDING AAS: PROGRAM TOTAL | 64 |

It is the policy of WCCCD that no person, on the basis of race, color, religion, national origin, age, sex, height, weight, marital status, disability, or political affiliation or belief, shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in employment or in any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education.

This document is for informational use only and does not constitute a contract. WCCCD reserves the right to add or delete, without notice, any course offering or information contained in this document. 2/19/07