WELDING TECHNOLOGY, OCCUPATIONAL CERTIFICATE

Program Information
In Texas, industries and communities are growing, especially in the petrochemical areas. As construction rates rise, so does the demand for talented welders. As construction rates rise, so does the demand for talented welders. The U.S. Bureau of Labor Statistics reports that the need for welders is expected to grow by 26 percent by 2020.

Welding is a process for permanently joining metals together by use of an electric-arc to melt a filler-metal into the original metal to make the two pieces as one. Welding can include joining parts such as piping, structural steel, steel plates, pressure vessels or even small parts; and it can be performed on carbon steel, stainless steel, aluminum and many other metals. Welding takes the skill and talent of an artist, and that skill can be acquired through training and discipline.

A welder may also be required to cut, contour and bevel metal plates and structural shapes into dimensions as specified by blueprints, work orders and templates; using torches, saws, shears or other machine tools.

San Jacinto College offers one of the largest and best-equipped welding training facilities in the region, where students can explore many facets of welding technology and gain access to career paths from manufacturing and industry to inspection and management.

The San Jacinto College welding technology program:
• Has a curriculum designed to meet the needs of the welding industry
• Provides instruction for all positions on carbon and stainless steel plate and pipe, using the following multiple processes: Shielded Metal Arc Welding (SMAW) "Stick", Gas Metal Arc Welding (GMAW) "MIG", Gas Tungsten Arc Welding (GTAW) "TIG" and Flux Cored Arc Welding (FCAW) processes, plus Oxy-Fuels
• Offers certificates and continuing education courses for students who want to go directly into the workforce
• Includes associate of applied science degree with academic courses to make a well-rounded individual to meet the needs of industry andcontinued opportunities

Earning Potential
Welder, Cutter, Solderer and Brazer
Overall: $47,923 per year ($23.04 hr)¹

¹ American Welding Society Certification Wages

Plan of Study
North Campus
6WLD-ART

Course  Title  Credits
First Term
WLDG 1305  Art Metals  3
WLDG 1308  Metal Sculpture  3
WLDG 1204  Fundamentals of Oxy-Fuel Welding and Cutting  2

Credits  8
### Second Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WLDG 1428</td>
<td>Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>4</td>
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<tr>
<td>WLDG 1430</td>
<td>Introduction to Gas Metal Arc Welding (GMAW)</td>
<td>4</td>
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</tbody>
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| Credits     | 8       |
| Total Credits | 16     |

**Capstone Experience:** WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW)