Welding Technologist Diploma - 32 credits
Program Area: Integrated Manufacturing Welding (Fall 2017)

***REMEMBER TO REGISTER EARLY***

Program Description
The Welding Technologist Diploma is a one-year program designed to provide an intermediate career pathway in manufacturing, specific to the field of Welding Technology. This 32 Credit Diploma is designed to prepare the student for employment as an entry to intermediate level welding or fabrication technologist. This program allows students to gain the information needed to develop skills used in the welding industry. This program covers introductory GMAW, GTAW, FCAW, SMAW, and OXY/Fuel welding processes. Instruction includes classroom lectures and demonstrations, as well as hands-on projects in a lab setting.

This 32-credit Diploma seamlessly transfers to the Advanced Welding Technologist AAS (60 credits).

Most of the courses in the INMG Welding Technologist Diploma are offered on-site in a lab setting with some of the courses offered online.

Program Outcomes
- Demonstrate proper welder use and safety
- Interpret welding blueprints and drawings
- Interpret weld symbols
- Demonstrate proper welding processes
- Demonstrate cutting process
- Demonstrate various weld transfers
- Select base metals with weld-ability
- Demonstrate weld and setup using GTAW
- Demonstrate weld and setup using GMAW
- Demonstrate proper GMAW wire selection
- Demonstrate proper fabrication layout
- Prepare student for welding certification

Required Courses

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Credits</th>
<th>Term</th>
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<tbody>
<tr>
<td>CADE 1468</td>
<td>Solidworks I</td>
<td>3</td>
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<tr>
<td>CMAE 1514</td>
<td>Safety Awareness</td>
<td>2</td>
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<tr>
<td>CMAE 1518</td>
<td>Manufacturing Processes and Production</td>
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<td>CMAE 1522</td>
<td>Quality Practices</td>
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<tr>
<td>CMAE 1526</td>
<td>Maintenance Awareness</td>
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<td>INMG 1400</td>
<td>Intro to Manufacturing Technology</td>
<td>4</td>
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<td>WLDG 1500</td>
<td>Blueprint Reading for Welders</td>
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<td>WLDG 1520</td>
<td>Gas Tungsten Arc Welding I</td>
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<td>WLDG 1540</td>
<td>Shielded Metal Arc Welding I</td>
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<td>WLDG 1560</td>
<td>Gas Metal Arc Welding I</td>
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<td>WLDG 1570*</td>
<td>Flux Cored Arc Welding I</td>
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<td>WLDG 1590*</td>
<td>Introduction to Robotic Welding</td>
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<tr>
<td>or-</td>
<td>Water Jet Cutting Processes</td>
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<td>MTCC 1530</td>
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Total Credits 32

*Requires a prerequisite or a concurrent course
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Pre-program Requirements
To begin your career in Welding Technology, you need to be at a specific skill level in English/reading and mathematics.

English/Reading:
- A score of 78 or higher on the reading comprehension portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

Mathematics:
- A score of 33 or higher on the Elementary Algebra Skills portion of the Accuplacer, or
- Completion of MATH0520 (or equivalent course or higher), and with a grade of “C” or better. MATH 0520 may be taken concurrently with Semester I coursework.

For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the professional advising team at: pat@lsc.edu or 218-733-7601

For specific information about the Welding Technologist AAS Diploma, including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program website: https://degrees.lsc.edu

- OR –

Contact Faculty Advisor, Jay Vittone: j.vittone@lsc.edu or 218-733-7705

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MnSCU Program ID: 13-254-6565
LSC Major ID: 6111

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