



## Welding Certificate - 24 credits

Program Area: Integrated Manufacturing Welding (Fall 2016)

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

### Program Description

The certificate is designed to provide a basic working knowledge of Integrated Manufacturing, and/or enhance the education of a student who may come in contact with Welding, Machine Tool, and Engineering CAD Technology through another related technical field of study.

*This certificate is designed to provide a basic working knowledge of Integrated Manufacturing, and/or enhance the education of a student who may come in contact with Welding, Machine Tool, and Engineering CAD Technology through another related technical field of study. This certificate is not intended to take the place of either the two-year AAS degree or the two-year diplomas from any of the Integrated Manufacturing Programs.*

REQUIRED COURSES			
Number	Name	Credits	Term
INMG 1400	Introduction to Manufacturing Technology	4	
INMG 1410	Mechanical Blueprint Reading	3	
CADE 1468	Solidworks I	3	
WLDG 1560	Gas Metal Arc Welding	3	
MTCC 1600	Engineering Materials	1	
WLDG 1520	Gas Tungsten Arc Welding	3	
WLDG 1540	Shielded Metal Arc Welding	3	
MTCC 1603	Turning	2	
MTCC 2500	CNC Mill Conversational	2	
<b>TOTAL CREDITS</b>		<b>24</b>	

*\*Requires a prerequisite or a concurrent course*

### Program Outcomes

- Demonstrate the proper use of various saws
- Use basic safety skills
- Calculate and set RPMs
- Use four-jaw chuck, turn between centers, and cut tapers
- Drill and bore holes
- Use edge finder
- Square work piece
- Cut pipe threads
- Cut acme threads
- Program using conversational language
- Set up and run parts

### Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

#### 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.

#### Math:

- A score of 33 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0520 (or equivalent course or higher). 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 a professional advisor, pat@lsc.edu or 218-733-7601*



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For more information about the Welding Certificate including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program Website:  
<https://degrees.lsc.edu/welding-certificate/>

- or -

Contact Faculty Advisors, Jay Vittone: [j.vittone@lsc.edu](mailto:j.vittone@lsc.edu) or 218-733-7705



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