

Production Welding

6 WEEKS
to a
NEW
CAREER!



Learn the basics of welding to qualify for an entry level position as a production welder. Course topics include: welding safety, intro to gas metal arc welding short circuit and spray transfer, blueprint reading and welding symbol interpretation.

- Register with #57004
- 6 weeks, 5 hours a day
- May 15 - June 28
- 8 AM – 1 PM
- SCC West Burlington Campus, Welding Lab

Program Overview

Intro to Welding, Safety & Health of Workers
Intro to Gas Metal Arc Welding Short Circuit Transfer (MIG)
Intro to Gas Metal Arc Welding Spray Transfer (MIG-S)
Print Reading & Welding Symbol Interpretation

**Stuck in a job that's
going nowhere?**

Get the skills to help you
land a job with a future.

Learn the basics for
an entry level welding
position.

Lay the foundation for
future training in this
growing field.

See if a career in welding is right
for you. Contact CBIZ today!
(319) 208-5375 • cbiz@scciowa.edu

**Financial assistance
available.**

Production Welding Certificate

This American Welding Society SENSE aligned course is designed for the participant who desires employment in production welding. Curriculum will be delivered through a combination of classroom lecture and hands-on training in a welding lab. Successful participants will have the necessary skills to obtain entry level employment in the high demand area of production welding. Also, aligns with the Iowa Welding Core Curriculum.

► **Call CBIZ at 319-208-5375 to find out more!**

WEL-228, Intro to Welding, Safety & Health of Workers

Module 1: Occupational Orientation

1. Prepares time or job cards, reports or records.
2. Performs housekeeping duties.
3. Follows verbal instructions to complete work assignments.
4. Follows written instructions to complete work assignments.

Module 2: Safety and Health of Welders

1. Demonstrates proper use and inspection of personal protection equipment (PPE).
2. Demonstrates proper safe operation practices in work area.
3. Demonstrates proper use and inspection of ventilation equipment.
4. Demonstrates proper Hot Zone operation.
5. Demonstrates proper work actions for working in confined spaces.
6. Demonstrates proper use of precautionary labeling and MSCS information.

WEL-244, Intro to Gas Metal Arc Welding Short Circuit Transfer (MIG)

Module 5: Gas Metal Arc Welding (GMAW-S, SMAW Spray Transfer)

1. Performs safety inspections of GMAW equipment and accessories.
2. Makes minor external repairs to GMAW equipment and accessories.

Short Circuiting Transfer

3. Sets up for GMAW-S operations on carbon steel.
4. Operates GMAW-S equipment on carbon steel.
5. Makes fillet welds in all positions on carbon steel.
6. Makes groove welds in all positions on carbon steel.
7. Passes GMAW-S welder performance qualification test on carbon steel.

Module 2: Safety and Health of Welders

1. Demonstrates proper inspection and operation of equipment used for each welding and thermal cutting process used.

Module 3: Drawing and Welding Symbol Interpretation

1. Fabricates parts from a drawing or sketch

Module 9: Welding Inspection and Testing

1. Examines tacks, root passes, intermediate layers, and completed welds.

WEL-245, Intro to Gas Metal Arc Welding Spray Transfer: SENSE (MIG)

Module 5: Gas Metal Arc Welding (GMAW-S, SMAW Spray Transfer)

1. Performs safety inspections of GMAW equipment and accessories.
2. Makes minor external repairs to GMAW equipment and accessories.

Spray Transfer

3. Sets up for GMAW (spray) operations on carbon steel.
4. Operates GMAW (spray) equipment on carbon steel.
5. Makes fillet welds in the 1F and 2F positions on carbon steel.
6. Makes groove welds in the 1G position on carbon steel.
7. Passes GMAW (spray) welder performance qualification test on carbon steel.

Module 2: Safety and Health of Welders

1. Demonstrates proper inspection and operation of equipment used for each welding and thermal cutting process used. (This is best done as a part of the process module/unit for each of the required welding or thermal cutting processes.)

Module 3: Drawing and Welding Symbol Interpretation

1. Fabricates parts from a drawing or sketch

Module 9: Welding Inspection and Testing

1. Examines tacks, root passes, intermediate layers, and completed welds.

WEL-233, Print Reading and Welding Symbol Interpretation: Sense 1

Module 3: Drawing and Welding Symbol Interpretation

1. Interprets basic elements of a drawing or sketch.
2. Interprets welding symbol information.