

Work magic with metal! This program is an introduction to common welding processes and precision metal fabrication. You'll learn how to do Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) in this program. Reading blueprints and knowing how to construct items according to specifications is essential in this field, and you'll learn how to do both. You'll also master the development of layout and the sequence of operations for fabricating and assembling metal products. This course is a prerequisite for Metal Fabricator Level 2.

## How You'll Learn Hands-On

Get out of the classroom and into the real world with projects such as:

- Fabricating custom parts for the News 9 storm chaser truck
- Creating 3D metal work projects for community fundraisers

## Where it Can Take You

Use the skills you'll learn in this program to find a career you'll love. Possibilities include:

- Metal Fabrication Machinist
- Sheet Metal/Fabrication Shop Manager
- Structural Engineering Manager
- Sales Manager for Metal Fabrication Company

Course	Hours
Cutting Level 1	40
FCAW Structural	70
GMAW Structural	75
Industry Credentials	30
Introduction to Equipment Operations	50
Safety	40
SMAW Structural	90
Submerged Arc Welding Basic	25

Welding and Fabrication Math	30
Welding Detail Drawings II	45
Workforce Connection	75
Welding Symbols	30
<b>Total</b>	<b>600</b>

## Career Readiness Certificate

[WorkKeys®](#), an assessment tool from the ACT® organization, measures skills employers have identified as critical to job success in their industry and are used in hiring and promoting employees. Students are able to earn the ACT®-issued [National Career Readiness Certificate](#) by meeting the score requirements for their job field on three WorkKeys® assessments.

Matching the right employees with the right job creates employee job satisfaction, increased self-confidence and the best wages possible for the employee. The employer benefits with reduced turnover and training, increased productivity and overall company success. To learn about the WorkKeys® scores needed for your future career field visit [Job Profiles](#).

The required WorkKeys scores for this career major are:

Applied Math - 3

Workplace Documents - 3

Graphic Literacy - 3

## Graduation Requirements

In order to be successful in a career, students will need to meet all technical and academic standards related to their career of choice at Meridian. Meridian offers rigorous programs of study designed in cooperation with business and industry to ensure students are fully prepared for the demands of the workplace.

## Meridian's Career Ready Credential

When a student completes all standards as set forth in their program of study, they will be considered a graduate of Meridian and receive the Career Ready Credential. Students who

do not meet these standards will not be considered graduates of Meridian. Students should have:

- Completed all courses in a career major with a grade of “C” or above and achieved required industry-based certifications for the career major
- Achieved WorkKeys® scores at or above the level required for the career major or earned an ACT® composite score of 19 or greater (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

## **Additional Endorsements**

Students earning a Career Ready Credential may also earn the Postsecondary Ready Endorsement, Citizenship Ready Endorsement and the National Career Readiness Certificate (CRC).

### **Postsecondary Ready Endorsement**

- Earned, or was on track to earn, a high school diploma or GED at the time of Meridian graduation
- Achieved a subscore of 19 or greater on the ACT® in math, English, reading and science (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

### **Citizenship Ready Endorsement**

- Completed employment profile, résumé, job application, cover letter, mock interview and job search training through [OKJobMatch.com](http://OKJobMatch.com)
- Documented active membership in a [CareerTech Student Organization](#) or professional association related to the program of study
- Documented 20 hours of volunteerism or service in a community activity

### **National Career Readiness Certificate (CRC)**

- Completed WorkKeys® assessments in Applied Math, Graphic Literacy and Workplace Documents and received a silver, gold or platinum National [Career Readiness Certificate](#) through the Oklahoma Department of Career and Technology Education.

## Get Started

Apply for [admission as a high school student](#). Apply for [admission as an adult](#). Contact the Career Planning Center with questions at [405.377.3333](tel:405.377.3333).