

## Welding Technology Level 1

Courses:

**Welding Safety and/or OSHA 10 or 30**

**Blueprint Reading**

**Minimum one process (SMAW, GMAW, GTAW)**

Student position qualifications:

**AWS 1F, 2F, and 1G**

Level 1

## Certificate A

16 to 29 credit hours

## Welding Technology Level 2

Level 1 requirements plus

**One additional position qualification**

**Two additional process (SMAW, GMAW, GTAW)**

Welding proficiency equal to or exceeding (AWS) standard

D1.1 on 3/8" thick carbon steel plate

Level 2

## Certificate B

30 to 44 credit hours

## Welding Technology Level 3

Level 1 and 2 requirements plus

**One additional position qualification**

Welding proficiency equal to or exceeding (AWS) standard

D1.1 on 3/8" thick carbon steel plate

Level 3

## Certificate C

45 to 59 credit hours

## Welding Technology Degree

Level 1, 2, and 3 requirements plus

**15 credit hours of General Education (minimum)**

Degree

## A.A.S.

60-68 credit hours

## Notes

6G Position on Pipe (with 2 of 4 GTAW, SMAW, GMAW, and FCAW on carbon steel) and ASME Section 9 qualifications are optional competencies; but colleges are strongly encouraged to pursue these credentials based on regional employer needs and students' career direction.

Colleges are encouraged, not required, to offer the following supplementary credentials: Kansas **WORKReady!** Certificate-Silver Level and SENSE Level 1 exam (AWS).

Competencies identified within the 10-12 credit hours of common courses represent opportunities for articulation with K-12.

## Common Courses within the Program

### Common Courses **10-12 credits:**

**Shielded Metal Arc Welding (SMAW)** **3 credits**

**Gas Metal Arc Welding (GMAW)** **3 credits**

**Gas Tungsten Arc Welding (GTAW)** **3 credits**

**Welding Safety and/or OSHA 10 or 30** **1-3 credits**

### Support Courses **1-3 credits:**

**Blueprint Reading** **1-3 credits**

Course list sequence has no implication on course scheduling by colleges. Institutions may add additional competencies based on local demand. Institutions may teach additional processes in Level 1.