



Welding Technology Associate of Applied Science

Program Summary Occupational Skills Awards Certifications Associate of Applied Science

The Welding program provides state-of-the-art training for new students as well as those individuals wanting to improve their skills. Partnering with nationally recognized Lincoln Electric allows students to receive the highest quality training and mastery of essential job skills.

AAS 6072 Welding Technology Associate of Applied Science 60 Hours		TSI Required
Basic Arc Welding Skills Certificate (16 hours)		
CC 6075	Certificate of Completion	TSI Waived
WLDG 1413	Intro to Blueprint Reading for Welders	4
WLDG 1428	Intro to Shielded Metal Arc Welding	4
WLDG 1430	Intro to Gas Metal Arc Welding	4
WLDG 1457	Intermediate Shielded Metal Arc Welding	4
Semi-Automatic Welding Certificate (16 Hours)		
CC 6074	Certificate of Completion	TSI Waived
WLDG 1412	Intro to Flux Core Arc Welding	4
WLDG 1413	Intro to Blueprint Reading for Welders	4
WLDG 1430	Intro to Gas Metal Arc Welding	4
WLDG 2413	Welding Using Multiple Processes	4
Special Arc Welding Certificate (15/16 Hours)		
CC 6076	Certificate of Completion Ψ Ψ	TSI Waived
WLDG 1434	Intro to Gas Tungsten Arc Welding	4
ELECTIVE	Approved Welding Elective	3/4
WLDG 1435	Introduction to Pipe Welding	4
WLDG 2413	Welding Using Multiple Processes	4
Welding Technology Certificate (17 Hours)		
CT 6078	Certificate of Technology Ψ	TSI Required
WLDG 1323	Welding Safety, Tools and Equipment	3
WLDG 2451	Advanced Gas Tungsten Arc Welding	4
BCIS 1305	Business Computer Applications	3
WLDG 1327	Welding Codes	3
WLDG 2406	Intermediate Pipe Welding	4
Welding Technology AAS		
AAS 6072	Associate of Applied Science +	TSI Required
ENGL 1301	Composition I	3
MATH	College Level Mathematics*	3
ELECTIVE	Social and Behavioral Science Core¶	3
ELECTIVE	Language, Philosophy and Culture or Creative Arts Core¶	3

*See Core Curriculum for course options

Ψ Prerequisite CC 6075

+ Capstone Experience – AWS Q 10-95

Ψ Ψ Must complete CC 6075 & CC 6074

¶ See Course Description for elective options



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Welding Technology

Occupational Skills Awards

[Program Summary](#)

[Occupational Skills Awards](#)

[Certifications](#)

[Associate of Applied Science](#)

Hill College offers Occupational Skills Awards (OSAs) designed for students pursuing careers in welding technology and industry professionals seeking to enhance their skills and education. These credentials can be completed in as little as one semester, providing pathways to immediate employment or increased marketability in the workforce. OSAs enable students to enter high-demand career fields with focused, efficient training. Credits earned through these awards can be applied toward Level 1 Certificates or Associate of Applied Science (AAS) Degrees at Hill College, creating seamless educational advancement opportunities.

Plate Welding

Course	Semester Credit Hours
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1428 Intro to Shielded Metal Arc Welding	4
WLDG 1457 Intermediate Shielded Metal Arc Welding	4
Total	12

Production Welding

Course	Semester Credit Hours
WLDG 1412 Intro to Flux Core Arc Welding	4
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1430 Intro to Gas Metal Arc Welding	4
Total	12

Gas Tungsten Arc Welding

Course	Semester Credit Hours
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1434 Intro to Gas Tungsten Arc Welding	4
WLDG 2451 Advanced Gas Tungsten Arc Welding	4
Total	12



Business & Industry



Welding Technology Certifications (Sequenced)

Program Summary

Occupational Skills Awards

Certifications

Associate of Applied Science

Basic Arc Welding Skills

Year 1: Semester 1

Course	Semester Credit Hours
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1428 Intro to Shielded Metal Arc Welding	4
WLDG 1430 Intro to Gas Metal Arc Welding	4
Total	12

Year 1: Semester 2

Course	Semester Credit Hours
WLDG 1457 Intermediate Shielded Metal Arc	4
Total	4

Semi-Automatic Welding

Year 1: Semester 1

Course	Semester Credit Hours
WLDG 1412 Intro to Flux Core Arc Welding	4
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1430 Intro to Gas Metal Arc Welding	4
Total	12

Year 1: Semester 2

Course	Semester Credit Hours
WLDG 2413 Welding Using Multiple Processes	4
Total	4

Special Arc Welding Skills

Year 1: Semester 1

Course	Semester Credit Hours
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1428 Intro to Shielded Metal Arc Welding	4
WLDG 1430 Intro to Gas Metal Arc Welding	4
Total	12

Year 1: Semester 2

Course	Semester Credit Hours
WLDG 1434 Intro to Gas Tungsten Arc Welding	4
WLDG 1457 Intermediate Shielded Metal Arc	4
Approved Welding Elective¶	4
Total	12

Year 2: Semester 2

Course	Semester Credit Hours
WLDG 1435 Introduction to Pipe Welding	4
WLDG 2413 Welding Using Multiple Processes	4
Total	8

¶ See Course Description for elective options



Business & Industry



Certificate of Technology

Year 1: Semester 1

Course	Semester Credit Hours
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1428 Intro to Shielded Metal Arc Welding	4
WLDG 1430 Gas Metal Arc Welding OR Approved Welding Elective¶	4
Total	12

Year 1: Semester 2

Course	Semester Credit Hours
WLDG 1430 Gas Metal Arc Welding OR Approved Welding Elective¶	4
WLDG 1434 Intro to Gas Tungsten Arc Welding	4
WLDG 1457 Intermediate Shielded Metal Arc	4
Total	12

Year 2: Semester 1

Course	Semester Credit Hours
WLDG 1327 Welding Codes OR WLDG 1323 Welding Safety, Tools and Equipment	3
WLDG 1435 Introduction to Pipe Welding	4
WLDG 2451 Advanced Gas Tungsten Arc Welding	4
Total	11

Year 2: Semester 2

Course	Semester Credit Hours
BCIS 1305 Business Computer Applications	3
WLDG 1327 Welding Codes OR WLDG 1323 Welding Safety, Tools and Equipment	3
WLDG 2406 Intermediate Pipe Welding	4
WLDG 2413 Welding Using Multiple Processes	4
Total	14

¶ See Course Description for elective options



Business & Industry



Welding Technology Associate of Applied Science

Program Summary

Occupational Skills Awards

Certifications

Associate of Applied Science

Year 1: Semester 1

Course	Semester Credit Hours
BCIS 1305 Business Computer Applications	3
WLDG 1413 Intro to Blueprint Reading for Welders	4
WLDG 1428 Intro to Shielded Metal Arc Welding	4
WLDG 1430 Gas Metal Arc Welding OR Approved Welding Elective¶	4
Total	15

Year 1: Semester 2

Course	Semester Credit Hours
ENGL 1301 Composition I	3
WLDG 1430 Gas Metal Arc Welding OR Approved Welding Elective¶	4
WLDG 1434 Intro to Gas Tungsten Arc Welding	4
WLDG 1457 Intermediate Shielded Metal Arc	4
Total	15

Year 2: Semester 1

Course	Semester Credit Hours
WLDG 1327 Welding Codes OR WLDG 1323 Welding Safety, Tools and Equipment	3
WLDG 1435 Introduction to Pipe Welding	4
WLDG 2451 Advanced Gas Tungsten Arc Welding	4
MATH College Level Mathematics*	3
Total	14

Year 2: Semester 2

Course	Semester Credit Hours
WLDG 1327 Welding Codes OR WLDG 1323 Welding Safety, Tools and Equipment	3
WLDG 2406 Intermediate Pipe Welding	4
WLDG 2413 Welding Using Multiple Processes	4
ELECTIVE Social and Behavioral Science Core¶	3
ELECTIVE Language, Philosophy and Culture or Creative Arts Core*	3
Total	17

*See Core Curriculum for course options

¶ See Course Description for elective options