

# Industrial Welding Technology

Lee College Pathway: **MANUFACTURING AND INDUSTRIAL**

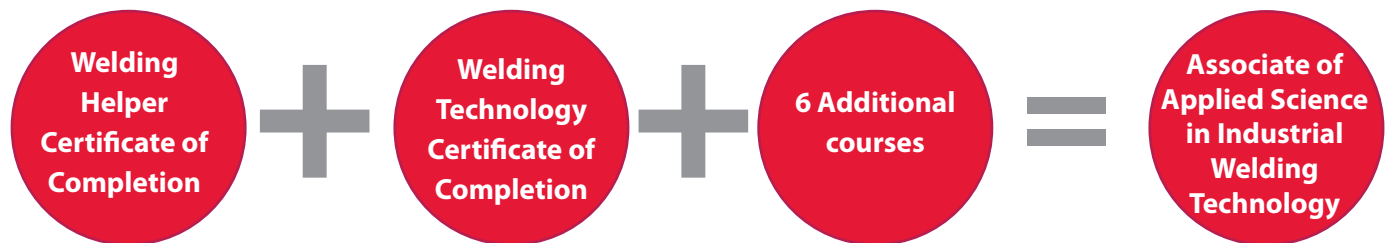
High School Endorsement: **BUSINESS AND INDUSTRY**



**MANUFACTURING  
& INDUSTRIAL**

Welders use hand-welding or flame-cutting equipment to weld, join metal components, and fill holes, indentations, and seams of fabricated metal products. The process of welding uses either electricity or various gasses to create high temperatures that bond metals. Welders may also be required to flame cut or cold cut metal based on blueprints and/or isometric drawings to construct new pipe or structural steel systems for process systems and unit infrastructure components.

An Associate of Applied Science (AAS) is a technical degree. Technical courses are less likely to transfer to a four-year school. Students planning to transfer to four-year schools should be aware that each college determines its own degree requirement and different colleges require different courses for the same degree. Therefore, students who plan to transfer to other institutions should use the degree plan requirements at the transfer institution to guide their choice at Lee College. The best source of information regarding degree plan requirements is the official catalog of the institution. Catalogs are available on the transfer institutions website.



## Suggested Course Sequence

\*Course availability varies by high school and district\*

Course	Lee College Course Title	Industry-Based Certification			
<b>Welding Helper Certificate of Completion</b>					
WLDG 1323	Welding Safety, Tools, and Equipment	NCCER Core			
WLDG 1200	Introduction to Welding	NCCER Level 1 (partial)			
WLDG 1428	Introduction to Shielded Metal Arc Welding	NCCER Level 1 (partial)			
WLDG 1313	Introduction to Blueprint Reading for Welders				
WLDG 2443	Advanced Shielded Metal Arc Welding	NCCER Level 1 (completion)			
<b>Welding Technology Certificate of Completion</b>					
WLDG 1312	Introduction to Flux Cored Arc Welding	NCCER Level 2 & 3 (partial)			
WLDG 1337	Introduction to Welding Metallurgy	NCCER Level 2 (partial)			
WLDG 1430	Introduction to Gas Metal Arc Welding	NCCER Level 2 (partial)			
WLDG 1434	Introduction to Gas Tungsten Arc Welding	NCCER Level 2 (completion)			
WLDG 1435	Introduction to Pipe Welding	NCCER 46101 - Fundamentals of Crew Leadership			
WLDG 2453	Advanced Pipe Welding	NCCER Level 3 (partial)			
WLDG 2451	Advanced Gas Tungsten Arc Welding	NCCER Level 3 (partial)			
<b>Associate of Applied Science in Industrial Welding Technology</b>					
<b>Students need to complete the 6 additional courses listed below to graduate with an AAS in Industrial Welding Technology.</b>					
ENGL 1301	SPCH 1321	Creative Arts Core	Social/Behavioral Science Core	Life & Physical Science or Math Core	TECM 1301

\*\*NCCER (National Center for Construction Education and Research) certification means that the holder is highly trained, knowledgeable, and qualified to do the job anywhere in the country. **To complete NCCER certification students must pass certification exam requirements.**

**Current High School Students:**  
Contact your high school counselor or  
Lee College Dual Credit Office  
281.425.6295 or dualenrollment@lee.edu

**Non-High School Students:**  
Contact Lee College Advising/Counseling Center  
281.425.6384