



Mobile Welding

Locations Vary

The Mobile Welding Lab brings welding instruction to businesses and communities within Northwood Tech's district. Save travel time while training your employees in the latest welding industry practices.

Welding skills are taught in the mobile lab with a capacity for up to eight students. Print Reading and Applied Math are taught in a classroom such as a conference room at your facility or convenient location.

Training Options:

Choose the training that fits your needs including:

- Customized Training
- Welding Certificates (includes Print Reading-Welding Trades, Applied Math and Oxyfuel and Cutting Processes)
 - Shielded Metal Arc (SMAW)
 - Gas Metal Arc (GMAW)
 - Flux Cored Arc (FCAW)
 - Gas Tungsten Arc (GTAW)

CUSTOMIZED TRAINING:

Bringing Northwood Tech education and training to our communities.



Scan the QR-code for more information



To learn more contact **Liz Pizzi**

Liz.Pizzi@NorthwoodTech.edu
651.270.8044

NorthwoodTech.edu

Welding Training Options

Course	Description	Hours	Credits
Welding For Mechanics	Learn plasma cutting (PAC), oxy-fuel cutting (OFC), SMAW (Stick), GMAW (Mig), FCAW and/or GTAW (Tig) welding for applications related to general industry practices.	64	2
Oxyfuel and Cutting Processes	Learn the basics of cutting and gouging operations using common processes, techniques, and equipment. Applications in the use of carbon steel, stainless steel and aluminum are emphasized.	64	2
Print Reading – Welding Trades	Learn orthographic projection, sketching, dimensioning, section and auxiliary views, structural shape identification, weld symbols, welding symbol nomenclature, welded joint geometry, metric conversion and interpretation of fabrications from prints.	64	2
Applied Math	Learn practical applications of whole numbers, fractions, decimals, percent, proportion, and formula evaluation. Includes measurement, U.S. and metric systems of measurement and basic geometry.	64	2

	Course	Hours	Credits
Shielded Metal Arc Welding (stick welding): One of the most common types of welding. Economical and effective, stick welding is the most popular choice for home shops and is well suited to shop jobs and fieldwork. It produces strong welds, and works on most alloy metals – even dirty or rusty surfaces. Finished welds must be cleaned of slag (the residue from the flux) after welding. Generally limited to welding ferrous metals (metals that contain iron).	Shielded Metal Arc Welding 1	96	3
	Shielded Metal Arc Welding 2	64	2
	Shielded Metal Arc Welding 3	64	2

	Course	Hours	Credits
Gas Metal Arc Welding or MIG (metal inert gas) welding: MIG welding requires separate shielding gas but doesn't require chipping and cleaning slag as the stick welding process can. It also uses continuous wire feed as an electrode. These two differences make for a faster and easier welding experience.	Gas Metal Arc Welding 1	96	3
	Gas Metal Arc Welding 2	64	2
	Gas Metal Arc Welding 3	32	1

	Course	Hours	Credits
Flux Cored Arc Welding: Used for welding on steel, aluminum, and stainless steel. Some flux-core wires shield the arc from contamination without the need for an additional shielding gas. This feature makes flux-cored welding an excellent choice for outdoor use as it works effectively on dirty or rusty metals, creating a thick, reliable seam.	Flux Cored Arc Welding 1	64	2
	Flux Cored Arc Welding 2	64	2

	Course	Hours	Credits
Gas Tungsten Arc Welding or TIG (tungsten inert gas) welding: TIG welding requires significant operator skill but offers a level of precision that other welding machines can't. TIG welders require shielding gas but offer greater control and the ability to fine-tune the current with the use of an amperage foot pedal. Can be used on nearly all weldable metals, though is most often applied to stainless steel and light metals such as thin alloy steel, aluminum, magnesium, and copper alloys.	Gas Tungsten Arc Welding 1	64	2
	Gas Tungsten Arc Welding 2	64	2
	Gas Tungsten Arc Welding Stainless Steel Plate	32	Customized Training
	Gas Tungsten Arc Welding Stainless Steel Tube	32	Customized Training

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