

Welding and Joining Technology (WAJ2)

Diploma eMap

This eMap, along with regular meetings with your program advisor and using DegreeWorks, will help you remain on track to finish your program as quickly as possible and graduate from Georgia Northwestern Technical College. This eMap is intended to be used when beginning the program in Fall semester. Starting the program in Spring or Summer semesters may alter the suggested courses or course availability. This pathway is based on the 2026-2027 academic year.



1 st set of suggested courses			
Course		Hours	Completed
WELD 1000	Introduction to Welding Technology	4	☐
WELD 1010	Oxyfuel and Plasma Cutting	4	☐
WELD 1030	Blueprint Reading for Welding Technology	4	☐
WELD 1040	Flat Shielded Metal Arc Welding	4	☐

^Certificate Earned: Basic Shielded Metal Arc Welder (FS31) Certificate.

2 nd set of suggested courses			
Course		Hours	Completed
WELD 1050	Horizontal Shielded Metal Arc Welding	4	☐
WELD 1060	Vertical Shielded Metal Arc Welding	4	☐
WELD 1070	Overhead Shielded Metal Arc Welding	4	☐
WELD xxxx	Occupational Elective (Recommended course: WELD 1151 Fabrication Processes)	3	☐

^Certificate Earned: Advanced Shielded Metal Arc Welder (OSM1) & Vertical Shielded Metal Arc Welder Fabricator (VSM1) Certificates.

3 rd set of suggested courses			
Course		Hours	Completed
WELD 1090	Gas Metal Arc Welding	4	☐
WELD xxxx	Occupational Elective (Recommended course: WELD 1153 Flux Cored Arc Welding*, 4 credits)	3	☐
WELD 1120	Preparation for Industrial Qualification	4	☐

^Certificate Earned: Gas Metal Arc Welder (GM31) & Flux Cored Metal Arc Welder (FC61) Certificates (If WELD 1153 is taken).

4 th set of suggested courses			
Course		Hours	Completed
WELD 1110	Gas Tungsten Arc Welding	4	☐
ENGL 1005	Applied Technical Communication	3	☐
MATH 1012	Foundations of Mathematics*	3	☐
EMPL 1000	Interpersonal Relations and Professional Development*	2	☐
OR PSYC 1010	OR Basic Psychology		
WELD xxxx	Welding Elective (Recommended course: WELD 1152, Pipe Welding) This elective is not required to complete the diploma, but encouraged for this trade.	4	☐

^Certificate Earned: Gas Tungsten Arc Welder (GTA1) Certificate.

*Courses may be available to complete online.

Total Credit Hours: 54 Minimum Credit Hours Required for Graduation

Welding and Technology Diploma Planning Notes (Daytime Course Sets):

- Classes for this program are offered at the Floyd County Campus, Walker County Campus, and Whitfield Murray Campus (schedules may vary). This eMap follows the Floyd campus suggested schedule.
- Welding supplies will be required for the first day of class and must be purchased/obtained by the student. For a full list of required supplies please email the program advisor for your campus.
- Program Advisors by campus: Brandon Johnson, bjohnson@gntc.edu (Floyd), Jeremiah Cooper, jcooper@gntc.edu (Walker), Billy Brown, bbrown@gntc.edu or Matthew Daniel, mdaniel@gntc.edu (Whitfield-Murray).
- If courses are taken in the suggested order, student will earn the following Certificates –
 - (1) Basic Shielded Metal Arc Welder (FS31) Certificate at the end of the 1st set
 - (2) Advanced Shielded Metal Arc Welder (OSM1) Certificate and Vertical Shielded Metal Arc Welder Fabricator (VSM1) Certificate at the end of the 2nd set
 - (3) Gas Metal Arc Welder (GM31) Certificate and Flux Cored Metal Arc Welder (FC61) Certificate at the end of the 3rd set
 - (4) Gas Tungsten Arc Welder (GTA1) Certificate at the end of the 4th set

Additional information for the Welding and Technology Diploma and program requirements can be found at [GNTC 2026-2027 Catalog](#)