

Combination Welding

A Technical Certificate Program

PROGRAM DESCRIPTION

The Combination Welding technical certificate program is designed to prepare individuals for employment as welders in an industrial setting. Instruction is provided in blueprint reading, Oxy-fuel cutting, brazing and welding, stick-arc Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (MIG), Gas Tungsten Arc Welding (TIG), plasma arc cutting, and carbon arc cutting.

PROGRAM ARTICULATION

All courses in the Combination Welding certificate program will articulate into the Associate of Applied Science degree program in Industrial Technology - Concentration: Welding/Metal Fabrication.

APPLICATION PROCEDURE

A student desiring to pursue a certificate in Combination Welding must:

1. Submit the Northeast State Application for Admission to the Office of Admissions and Records.
2. Indicate Combination Welding as the desired major on the Northeast State application form.
3. See a faculty advisor from the Welding/Metal Fabrication program prior to registering for classes.

GAINFUL EMPLOYMENT DISCLOSURE

As required by the U.S. Department of Education
[https://apps.northeaststate.edu/
GainfulEmployment/](https://apps.northeaststate.edu/GainfulEmployment/)

TYPICAL PROGRAM OF STUDY

Course No.	Course Title	Credit
FALL		
INTC 1010	Quality and Inspection	3
WELD 1060	General Welding	4
WELD 1070	Applied Welding	4
WELD 1210	Welding Blueprints	3
SPRING		
WELD 1130	Fabrication Tools and Processes	3
WELD 1410	Metallurgy and Materials Testing	2
WELD 2110	Inert Gas Arc Welding	3
WELD 2120	Pipe Welding	4
Total Credit Hours		26



TYPICAL JOB OPPORTUNITIES

Combination Welder: Produces a variety of welds using different welding processes.

Pipe Welder: Performs welding on different types of pipe using a variety of welding processes.

PROGRAM COMPETENCIES

The graduate is competent to:

1. Perform arc and GTAW welds according to industry code requirements on ferrous and non-ferrous metals.
2. Design, construct, and fabricate products using pattern development techniques, triangulation, and radical line principles.
3. Prepare special metals with plasma cutting and the use of GTAW, GMAW, and special processes including preheat, pre purge, weld, post purge, and post heat.

FOR FURTHER INFORMATION CONTACT:

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Northeast State Community College is part of the Tennessee Board of Regents system, Tennessee's largest higher education system, governing 40 post-secondary educational institutions with over 200 teaching locations. The TBR system includes 13 two-year colleges, 27 colleges of applied technology, and TN eCampus, providing programs to students across the state, country, and world.

Northeast State Community College does not discriminate on the basis of race, color, religion, creed, ethnic or national origin, sex, disability, age status as a protected veteran or any other class protected by Federal or State laws and regulations and by Tennessee Board of Regents policies with respect to employment, programs, and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Linda W. Calvert, Vice President for Institutional Advancement and Culture, AffAct@NortheastState.edu, P.O. Box 246, Blountville, TN 37617-0246, 423.323.0222.

Northeast State Community College's policy on nondiscrimination can be found at <https://apps.northeaststate.edu/ie/policymanual/pol.asp?p=254>.

Northeast State Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the associate degree. Northeast State also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Northeast State Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).