



WLDG 1421.025DC – Introduction to Welding Fundamentals Face to Face (F2F) Instruction

Course Syllabus: Fall 2025

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

Instructor: Brandon Scheu

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours	2:30-5pm		2:30-5pm		By appointment	

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description: An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy.

Students enrolled in this course must have a tool kit from the college bookstore, or provide the necessary tools and consumables required to successfully completing the class. Additional course fee: \$90.00. Two hours lecture and Three hours lab each week.

Prerequisite(s): none

Student Learning Outcomes:

Demonstrate safety procedures associated with oxy-fuel and arc process; perform basic welds using oxy-fuel and arc weld equipment; and identify ferrous and nonferrous metals.

- I. Orientation
- II. Safety
- III. Oxyacetylene
- IV. Arc Welding (SMAW)

SCANS Skills:

Course Objectives Upon successful completion of this course, the student will be able to:
Objectives for this course are listed in the handout that covers competencies/tasks.

Lectures & Discussions:

Task Code	Task Description
2102.00	Oxyacetylene Cylinders and Equipment (F1, F5, F6, F11, C5, C9, C14)
2102.01	Demonstrate the proper method of handling, storing, and setting up oxyacetylene cylinders and equipment
2102.02	Demonstrate the ability for straight line cutting $\frac{1}{4}$ " to $\frac{3}{8}$ " metal
2102.03	Demonstrate ability for bevel cutting $\frac{1}{4}$ " to $\frac{3}{8}$ " metal
2102.04	Demonstrate ability for piercing and hole cutting
2102.05	Demonstrate ability for making a puddle bead on light steel plate
2102.06	Demonstrate ability for making a butt weld with no filler metal on light steel plate
2103.00	Arc welding and Equipment (F1, F5, F6, F11, C5, C9, C14)
2103.01	Demonstrate ability for setting up shield metal arc equipment
2103.02	Demonstrate ability for starting an arc and running stringer beads
2103.03	Demonstrate ability for running weave beads

Competencies/Tasks:

STUDENT NAME	Square Butt Joint with filler $\frac{3}{32}$ " or $\frac{1}{8}$ " RG-45. On 1"x6" MS-16 Gauge	LAP Joint with filler $\frac{3}{32}$ " or $\frac{1}{8}$ " RG-45. On 1"x6" MS-16 Gauge	Tee Joint with filler $\frac{3}{32}$ " or $\frac{1}{8}$ " RG-45. On 1"x6" MS-16 Gauge	OUT Side Corner No filler. On 1"x6" MS-16 Gauge	FINAL TEST ALL POSITIONS
	Square Butt Joint with MS-1/4" x" x 6" Flat Bar	Lap Joint with MS-1/4" x" 6" Flat Bar	Tee Joint with MS-1/4" x" 6" 6" Flat Bar	Out Side Corner MS-1/4" x" x 6" Flat Bar	
	E6011	E7018	E6011	E7018	E6011
					E7018

Evaluation/Grading Policy:

The grades you will receive for this class will be based upon these areas:

- **Test and Quizzes:** Hands-on Lab Practice **50%**
- **General Work Habits:** Safety, Lab time, Materials, and Care of equipment. **20%**
- **Final Test:** Hands-on Lab All Positions Final Test **30%**

Total: 100%

Required Instructional Materials:

Basic Principles and Applications, 9th edition, by Larry Jeffus

Publisher: Delmar, Cengage Learning

ISBN Number: 13:978-0-357-37765-9

Recommended Instructional Materials:

Basic Principles and Applications, 8th edition, by Larry Jeffus (Chapter 2 Safety in Welding)

Optional Instructional Materials:

Each student is required to have a welding toolkit that may be purchased from the bookstore on campus AND steel toe boots for this course. If the student does not purchase this from the bookstore they will be required to provide the

necessary equipment.

Minimum Technology Requirements: None

Required Computer Literacy Skills: None

Course Structure, General Classroom and Lab Policies:

The Mechanical Power Technology program, like most other vocational programs, has policies that must be followed. These policies will give you, the student a better opportunity to learn the mechanical power trade. *The general classroom and lab policies are in the Mechanical Power Technology Shop Safety Manual.* The instructor may have additional policies for their class.

General Safety Policies:

Anyone with extremely long hair must have some way to keep it up (hair net, hat). There will be no open-toe shoes worn in the shop (sandals, flip flops). Each student will be required to have a pair of safety glasses to be at all times. *The general safety policies are in the Mechanical Power Technology Shop Safety Manual.* The instructor may have additional safety policies for their class.

Student Responsibilities/Expectations:

It is important to present a professional image in the work place. Therefore, students are required to wear 100% cotton long sleeve shirts. They may be purchased in the bookstore or you can purchase in town. If your employer furnishes uniform shirts, they may be worn in place of the school shirt. These shirts should be clean and neat at all times. You must have an approved uniform Welding Clothing by the second week of class. If you do not, you will not be allowed to start any hands-on welding in the lab and 10 points will be deducted from your professionalism grade each class period proper welding clothing is not worn. **Shorts and sandals are not allowed. Professional appearance is part of your grade**

Attendance Policy

Regular and punctual attendance at all scheduled classes is expected. Attendance is necessary for successful completion of course work. If you are absent, you are responsible for initiating procedures for make-up work. All course work missed, regardless of cause, is to be completed to the satisfaction of the instructor. Every time the student comes late to class will be adding deduction points into his final grade. More than three absences is considered excessive! It is up to you to initiate a drop in the Office of Admissions and Records. (At the discretion of the instructor, a student with no more than two absences and with an "A" average will be exempt from the final exam.)

Communications:

Institutional/Course Policy:

Class recognition certificates may be distributed at the end of the course. The awarding of such certificate is at the sole discretion of the instructor

LOCKERS AND TOOLS BOXES AT THE END OF EACH SEMESTER

Each student has to clean up his/her own locker, take all personal items out the locker box and return ALL WELDING TOOLS. IF ANY WELDING TOOL IS MISSING, HE/SHE WILL NOT RECEIVE A FINAL GRADE UNTIL ALL IS RETURNED BACK AS THEY WERE ISSUED AT THE BEGINNING OF THE SEMESTER.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:

Absent a clear statement from a course instructor, use of or consultation with generative AI shall be treated analogously to assistance from another person (collusion). Generative AI is a subset of AI that utilizes machine learning models to create new, original content, such as images, text, or music, based on patterns and structures learned from existing data (Cornell, Center for Teaching Innovation). Unauthorized use of generative AI tools to complete an assignment or exam is not permitted. Students should acknowledge the use of generative AI and default to disclosing such assistance when in doubt. Individual course instructors may set their own policies regulating the use of generative AI tools in their courses, including allowing or disallowing some or all uses of such tools. Students who are unsure of policies regarding generative AI tools are encouraged to ask their instructors for clarification. (**Adapted from the Stanford University Office of Community Standards-- accessed August 31, 2023**)

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program

of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

I HAVE READ THE SYLLABUS FOR THIS COURSE AND UNDERSTAND WHAT IS REQUIRED TO
PASS. I UNDERSTAND THE EVALUATION AND GRADING POLICIES IN THIS COURSE.

I WILL FOLLOW ALL SAFETY AND CLASSROOM POLICIES BOTH WRITTEN AND VERBAL.

ALL QUESTIONS I HAD WERE ANSWERED BY THE INSTRUCTOR TO MY SATISFACTION.

COURSE WLDG 1421.

Student Signature

Date