



WLDT 130: Pipe Welding

Summer 2023

Justin Brown

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VHS 712/Office Hours: T/W 1030 to 1100

Division Chair: Stephen Takach: set@unm.edu

Course Credit hours: 4

COURSE DESCRIPTION

This course utilizes advanced Arc and oxyacetylene welding skills and techniques on ferrous pipe in a rotating and/or a fixed position. Emphasis is placed on the open groove pipe joint. The course will include alignment techniques, oxyacetylene cutting of pipe, pre-heat inter-pass temperatures, and mechanical preparation of the joints.

Course Goals:

Goal of this course is for students to achieve an understanding of Oxy-fuel cutting and welding.

Student Learning Outcomes/Course Objectives

The following are the objectives for the course. Each module/week/unit will have specific learning objectives listed on the Overview Page. The activities in that module (i.e.: discussions, assignments, and assessments) are developed so that you can demonstrate you have met these objectives:

- Understand and be able to explain safety requirements for GTAW, SMAW, GMAW welding and oxy-fuel cutting.
- Identify and explain parts of a GTAW, SMAW, GTAW, OFW machine and consumables.
- Identify shield gases used in GTAW, GMAW welding
- Fabricate and prep pipe to be welding with SMAW, GMAW, or GTAW welding by hand and with a pipe beveler.
- Fit and tack pipe to specifications.
- Perform groove welds in 1G, 2G, 5G, and 6G positions.

Prep for AWS certification tests.

Prerequisites and Co-requisites

N/A

Specific Course Requirements (If Applicable)

N/A

TECHNICAL SKILLS

In order to participate and succeed in this class, you will need to be able to perform the following basic technical tasks:

- Use UNM Learn (help documentation located in "How to Use Learn" link on left course menu, and also at [Online Student Documentation](#)). Also, UNM-Valencia provides a Blackboard Learn Jumpstart self-learning module to give you practice with the most commonly used tools in UNM Learn. Ask your instructor if you do not see the UNM-Valencia Blackboard Learn Jumstart in your list of classes in UNM Learn.
- Use email – including attaching files, opening files, downloading attachments
- Copy and paste within applications including Microsoft Office
- Open a hyperlink (click on a hyperlink to access a website or online resource)
- Use Microsoft Office applications
 - Create, download, update, save and upload MS Word documents
 - Create, download, update, save and upload MS PowerPoint presentations
 - Create, download, update, save and upload MS Excel spreadsheets
 - Download, annotate, save and upload PDF files
 - Access MS Teams
- Use the in-course web conferencing tool (Collaborate Web Conferencing software in UNM Learn) or use Zoom or other web conferencing tool
- Download and install an application or plug in – required for participating in web conferencing sessions

TECHNICAL REQUIREMENTS

Computer

- A high-speed Internet connection is highly recommended.
- Supported browsers include: [Detailed Supported Browsers and Operating Systems](#)
- Any computer capable of running a recently updated web browser should be sufficient to access your online course. However, bear in mind that processor speed, amount of RAM and Internet connection speed can *greatly* affect performance.
- For the best experience when using the Kaltura Media Tools inside UNM Learn, be sure to use a [supported browser](#) on a desktop.
- Microsoft Office products are available free for all UNM students (more information on the [UNM IT Software Distribution and Downloads page](#))
- Please update your contact information in LoboWeb: [MyUNM Login](#). When you log into MyUNM, Enter LoboWeb. Click on the Personal Information link to make sure your contact information is up to date.

Technical Support

- For UNM Learn Technical Support: (505) 277-0857 (24/7) or use the “Create a Tech Support Ticket” link in your course.
- For UNM-Valencia IT Support: (505)925-8911
- For UNM Web Conference Technical Help: (505) 277-0857

TEXTBOOK AND SUPPLEMENTAL MATERIALS

Required Textbooks:

N/A

Recommended and/or Optional Textbooks, Journals and Articles:

N/A

Required Supplementary Materials:

N/A

COURSEWORK AND PARTICIPATION

Instructor Response Time

I routinely check the course for postings or emails, daily at 7:00am and 2:30pm and sometimes on the weekend. You can anticipate a 24-to-48-hour response from me, Monday – Thursday. I will try and respond to all weekend (Friday afternoon to Sunday) emails and postings by noon on Monday or earlier.

Procedures for Completing Coursework

- Homework: is due at the start of class. Late work is worth 50%.
- It is the responsibility of the student to pick up all make up work. All make up work is due the following class period after the student returns. It is the responsibility of the student to make prior arrangements before being absent for any reason. (Make up work may be different than regular assignment).
- Extra Curricular Activities: If you will be gone on a related school activity, it is your responsibility to make prior arrangements before. All presentations, assignments, homework and projects must be turned in prior to being absent; unless prior arrangements have been made with the instructor.
- Students are expected to come to class prepared. They must have paper, pen or pencil, binder, and all other materials necessary for daily work.
- Daily work is due at the end of each class period or it is considered late.
- All materials used will be picked up and returned before class will be dismissed each day.

Expectations for Participation

- time required 3 hours/week
- students are expected to communicate with one another in team projects
- students are expected to keep abreast of course announcements
- students are expected to use the Learn course email as opposed to a personal email address
- students are expected to keep instructor informed of class related problems, or problems that may prevent the student from full participation
- students are expected to address technical problems immediately
- students are expected to observe course netiquette at all times

Netiquette

- [Netiquette document](#)

NOTES TO STUDENTS ABOUT PARTICIPATION IN A COURSE USING UNM LEARN:

Tracking Course Activity

UNM Learn automatically records all students' activities including: your first and last access to the course, the pages you have accessed, the number of discussion messages you have read and sent, web conferencing, discussion text, and posted discussion topics. This data can be accessed by the instructor to evaluate class participation and to identify students having difficulty

Submitting Assignments

When you submit an assignment via UNM Learn, you will receive an email receipt of your submission from *do-not-reply@learn.unm.edu*. Save this email as confirmation of your submission.

GRADING PROCEDURES

- Final grade will be comprised of but not limited to quizzes, tests, presentations, projects etc.... that will aid the students in fully understanding and accomplishing the course learning objectives.
- Assignments will be graded by the end of the week that they were assigned in most cases.

GRADING SCALE

Final grades will be based on the sum of all possible course points as noted above.
Percentage of available points

Grade

90 -100	A
80 -89	B
70 -79	C
60 -69	D
< 60	F

UNM POLICIES

Equal Opportunity and Non-Discrimination

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the [Department of Education](#) (see pg. 15). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the [Office of Equal Opportunity](#).

[Read more about campus policy regarding sexual misconduct.](#)

Copyright Issues

All materials in this course fall under copyright laws and should not be downloaded, distributed, or used by students for any purpose outside this course.

[The UNM Copyright Guide](#) has additional helpful information on this topic.

Accessibility and Accommodations

The American with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodations of their disabilities. If you have a disability requiring accommodation, please contact:

- [UNM-Valencia Student Services](#) if you are a Valencia campus student. The phone number is 505-925-8560
- [UNM Accessibility Resource Center](#) in 2021 Mesa Vista Hall if you are a main campus student. The phone number is 505-277-3506.

Information about your disability is confidential and your instructor cannot refer you for accommodations. Be aware that you will need to provide documentation. If you need assistance in obtaining documentation, the offices above can assist you.

Accessibility Statements

[Blackboard's Accessibility statement](#)

[Microsoft's Accessibility statement](#)

Include links to accessibility statements for all other technologies included in the course.

Academic Integrity

You should be familiar with UNM's [Policy on Academic Dishonesty](#) and the [Student Code of Conduct](#) which outline academic misconduct defined as plagiarism, cheating, fabrication, or facilitating any such act.

Drop Policy:

UNM Policies: This course falls under all UNM policies for last day to drop courses, etc. Please see or the UNM Course Catalog for information on UNM services and policies. Please see the UNM academic calendar for course dates, the last day to drop courses without penalty, and for financial disenrollment dates.

DROP/WITHDRAW DATES

Course(s) dropped between May 25, 2022 and October 14, 2022 will appear on the UNMC transcript with a grade of 'W'. Course(s) dropped after Last Day to WITHDRAW will reflect the grade earned on the UNMC transcript.

Course(s) dropped between August 29, 2022 and November 11, 2022 will appear on the UNMC transcript with a grade of 'W'. Course(s) dropped after Last Day to WITHDRAW will reflect the grade earned on the UNMC transcript.

UNM RESOURCES

- [UNM Valencia Campus Tutoring Services](#)
- [UNM Main Campus CAPS Tutoring Services](#)
- [UNM-Valencia Library](#)
- [UNM Libraries](#)
- ["Life" Resources available to UNM-Valencia Students](#)
- [Student Health & Counseling \(SHAC\) Online Services](#)

FOR MILITARY-CONNECTED STUDENTS

There are resources on campus designed to help you succeed. You can approach any faculty or staff for help with any issues you may encounter. Many faculty and staff have

completed the GREEN ZONE training to learn about the unique challenges facing military-connected students. If you feel that you need help beyond what faculty and/or staff can give you, please reach out to the Veterans Resource Center on main campus at 505-277-3181, or by email at vrcc@unm.edu. The Veterans Coordinator at UNM-Valencia is in the Student Services Office, at 505-925-8560.

COVID-19 HEALTH AND AWARENESS

UNM is a mask friendly, but not a mask required, community. To be registered or employed at UNM, Students, faculty, and staff must all meet UNM's Administrative Mandate on Required COVID-19 vaccination. If you are experiencing COVID-19 symptoms, please do not come to class. If you have a positive COVID-19 test, please stay home for five days and isolate yourself from others, per the Centers for Disease Control (CDC) guidelines. If you do need to stay home, please communicate with me at jbrown751984@unm.edu; I can work with you to provide alternatives for course participation and completion. UNM faculty and staff know that these are challenging times. Please let us know that you need support so that we can connect you to the right resources and please be aware that UNM will publish information on websites and email about any changes to our public health status and community response. Support: Student Health and Counseling (SHAC) at (505) 277-3136. If you are having active respiratory symptoms (e.g., fever, cough, sore throat, etc.) AND need testing for COVID19; OR if you recently tested positive and may need oral treatment, call SHAC.

TITLE IX

Our classroom and our university should always be spaces of mutual respect, kindness, and support, without fear of discrimination, harassment, or violence. Should you ever need assistance or have concerns about incidents that violate this principle, please access the resources available to you on campus. Please note that, because UNM faculty, TAs, and GAs are considered "responsible employees" by the Department of Education, any disclosure of gender discrimination (including sexual harassment, sexual misconduct, and sexual violence) made to a faculty member, TA, or GA must be reported by that faculty member, TA, or GA to the university's Title IX coordinator. For more information on the campus policy regarding sexual misconduct, please see: <https://policy.unm.edu/university-policies/2000/2740.html>.