

Welding Codes and Standards

An in-depth study of welding codes and their development in accordance with structural standards, welding processes, destructive and nondestructive test methods.

Course Learning Objectives

interpret codes and standards; interpret welding symbols; apply pre-weld, in process, and shop inspection standards; develop welding procedures; and calculate preheat and post weld heat treatments.

Objectives discussed/demonstrated in designated time segments, as established in the current semester quarter of WF/CE course master listings or specialized WF/CE business/industry generated contracts.

Required Textbooks

Textbook: Modern Welding

Publisher: Goodhart-Wilcox

Evaluation Standards

Methods of evaluation for awarding of successful or unsatisfactory course completion: Class attendance (80%), completion of class assignments, class participation, student demonstration of course learning outcomes/skills with instructor feedback, and periodic performance reviews and assessments.

Instructional Methods

Lectures, hands-on activities, reading assignments, class participation, class/student participation, student demonstration with instructor feedback

Disabilities

ADA Statement:

Any student with a documented disability (e.g. learning, psychiatric, vision, hearing, etc.) may contact the Office on the Weatherford College Weatherford Campus to request reasonable accommodations. *Phone:* 817-598-6350 *Office Location:* Office Number 118 in the Student Services Building, upper floor. *Physical Address:* Weatherford College 225 College Park Drive Weatherford, TX.

Academic Integrity

Academic Integrity is fundamental to the educational mission of Weatherford College, and the College expects its students to maintain high standards of personal and scholarly conduct. Academic dishonesty of any kind will not be tolerated. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism, collusion, and the abuse of resource materials including unauthorized use of Generative AI. Departments may adopt discipline specific guidelines on Generative AI usage approved by the instructional dean. Any student who is demonstrated to have engaged in any of these activities will be subject to immediate disciplinary action in accordance with institutional procedures.

Program Learning Outcomes

Students successfully completing the entire Welding Technology Program will have gained employability and/or improved employability skills.