
Course Prefix/No.:	EGT 117
Course Title:	Welding Print Principles
Lecture Hours/Week:	2.0
Lab Hours/Week:	0.0
Credit Hours/Semester:	2.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course covers welding symbols and their application to pipe fabrication.

COURSE COMPETENCIES

Upon successful completion of this course, the student should be competent to perform the following:

Module 1 – Symbols & Abbreviations

- Identify welding symbols on a drawing or print.
- Identify weld (type) symbols on a drawing or print.
- Identify additional welding symbol elements on a drawing or print.
- Interpret the intended location of welding symbols on a given print or drawing.
- Interpret multiple reference lines of a welding symbol and their applications.
- Read and understand welding abbreviations.

Module 2 – Common Weld Types

- Fillet Welds
 - Identify the size, length, and extent of a fillet weld when given a print or drawing containing such information.
 - Identify the pitch of a fillet weld when given a print or drawing containing such information.
 - Determine the intermittent length of a fillet weld when given a print or drawing containing such information.
- Groove Welds
 - Identify the depth of a groove weld when given a print or drawing containing such information.
 - Identify the groove weld size when given a print or drawing containing such information.
 - Identify the root opening dimensions of groove welds when given a print or drawing containing such information.
 - Identify consumable inserts and their application to groove welds when given a print or drawing containing such information.

Module 3 – Back or Backing and Melt-thru Welds

- Identify the size of backing welds when given a print or drawing containing such information.

- Identify melt-thru welds when given a print or drawing containing such information.
- Determine a back or backing weld application with reference to welding symbols when given a print or drawing containing such information.
- Determine melt-thru applications with groove welds when given a print or drawing containing such information.

Module 4 – Specialty Welding Applications

- Identify Plug-and-slot Welds on a given print or drawing when containing such information.
- Identify Surfacing Welds on a given print or drawing when containing such information.
- Identify Edge Welds on a given print or drawing when containing such information.
- Identify Spot Welds on a given print or drawing when containing such information.
- Identify Projection Welds on a given print or drawing when containing such information.
- Identify Seam Welds on a given print or drawing when containing such information.

MINIMAL STANDARDS

Assignments and attendance must be completed as designated in “Evaluation Strategies/Grading.” Criteria for minimal acceptable performance will be provided by the instructor.

REQUIREMENTS

Attendance Policy

The college attendance policy stated in the college handbook will be honored. The instructor will provide specific requirements for the course.

Academic Honesty

Students are expected to adhere to the college policy regarding student conduct as stated in the college handbook.

Assignments

Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING

Successful completion of the course requires the completion of each module with an average of 70 points. Grades will be calculated from work attitude, all tests/projects, homework assignments, and laboratory assignments.

Grading Scale:

- A = 90.0 – 100
- B = 80.0 – 89.9
- C = 70.0 – 79.9
- D = 60.0 – 69.9
- F = 00.0 – 59.9

Evaluation Method:

Tests/Projects	75.0% of Final Grade
Work Attitude	25.0% of Final Grade
Total	100.0% Final Grade

Work Attitude is defined as:

- | | |
|---|--|
| <input type="checkbox"/> Participation | <input type="checkbox"/> Professionalism |
| <input type="checkbox"/> Cooperation | <input type="checkbox"/> Attendance |
| <input type="checkbox"/> Effort | <input type="checkbox"/> Self Motivation |
| <input type="checkbox"/> Responsibility | |

ENTRY LEVEL SKILLS

It is recommended that the student entering this course have an appropriate understanding of basic math.

PREREQUISITE: RDG 031 or equivalent

CO-REQUISITES: None

METHODS OF INSTRUCTION

Lectures, reading assignments, discussions, video presentations, multimedia presentations, and web content are the major teaching methods used in this course.

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.