



**Course Syllabus**

**Introduction to Gas Tungsten Arc Welding (TIG)**

**WLDG 1434**

**Course Description:** Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.

**Semester Hours Credit:** 4

**Lecture/Lab Hours:** 2/4 (2 lecture hours, 4 lab hours)

**Prerequisite:** NONE

**Textbook(s):** Gas Tungsten Arc Welding (William H Minnick) The Good-Heart Wilcox Company ISBN: 1566376947

**Course Outcomes:**

Upon successful completion of this course the student will:

1. Describe various joint designs
2. describe safety rules and equipment
3. describe the effects of welding parameters in GTAW
4. weld various structural materials

**Evaluation Methods:**

1. Attendance
2. Lab tests and lab performance
3. Visual inspection
4. Destructive method using a guided bend tester
5. Written exams

**Student Learning Outcomes:**

- Personal Responsibility : Students will utilize personal responsibility skills to work describe welding positions, prepare plates, run beads on lap joints and Tee Joints , weld various types of material and define principles of Gas Tungsten Arc Welding. Assessment for this SLO will be conducted with students working on Assignment chapter 1 with a visual 2F test (Tee-Joint 2f weld Horizontal). The target for this SLO, 90% of the class will Weld 2f horizontal weld and perform GTAW operations in various positions using selected Amperages and different joint designs with a 70% or better.



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See at: [GL \(Legal\)](#)

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For more information, contact: in Alice at [sdalice@coastalbend.edu](mailto:sdalice@coastalbend.edu); Beeville at [sdbeeville@coastalbend.edu](mailto:sdbeeville@coastalbend.edu); Kingsville at [sdkingsville@coastalbend.edu](mailto:sdkingsville@coastalbend.edu); and Pleasanton at [sdpleasanton@coastalbend.edu](mailto:sdpleasanton@coastalbend.edu).

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See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

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