

GAS TUNGSTEN ARC WELDING (GTAW-TIG)

96 HRS.

Course Description

The Gas Tungsten Arc Welding course is designed to teach students about arc welding safety and the Gas Tungsten Arc Welding process (GTAW-TIG) and proper techniques for welding. Upon completion of this course, the student will be able to perform general entry level production and maintenance welding in fabrication shop, machine shop, oil field, pipeline, petrochemical, power plant or refineries on mild steel, stainless steel and carbon steel. This course contains 24 hours of lecture and 72 hours of lab, which totals 96 clock hours. This course will last 6 weeks. In order to complete course student must pass a skills test. At the completion of the course each student will receive a certificate of completion.

Gas Tungsten Arc Welding Outline

Subject Title Introduction to Gas Tungsten Arc Welding

The approximate time to complete the Gas Tungsten Arc Welding course is six weeks for the day and evening class.

Introduction to Gas Tungsten Arc Welding Description

Each student will have an understanding of how the GTAW process works and be able to perform a fillet and groove weld with and without backing in all positions. (No prerequisite)

Lab Description

Each student will learn safety, welding rod functions, how to do cutting procedures using cutting torch or gauging. Students will weld in various positions. In order to complete the course student must be able to pass a skills test after each welding position which consist of a visual inspection and bend test.

SMAW PIPE WELDING (SMAW-PIPE)

96 HRS.

Course Description

This course will instruct students in welding safety of the Shield Metal Arc Welding process (SMAW-Pipe), proper techniques and electrode selection for welding pipe in various welding positions (1G,2G,5G,6G) to meet ASME welding code. Upon completion of this course, the student will be able to perform general entry level production and maintenance welding in fabrication shop, machine shop, oilfield, pipeline, petrochemical, power plant or refineries on mild steel, stainless steel and carbon steel. This course contains 24 hours of lecture and 72 hours of lab, which totals 96 clock hours. This course will last 6 weeks. In order to complete course student must pass a skills test. At the completion of the course each student will receive a certificate of completion.

Pipe Welding Outline

Subject Title Introduction to Pipe Welding

The approximate time to complete the SMAW pipe course is six weeks for the day and evening class.

Introduction to Pipe Welding Description

The students will have weld with E6010 and E7018 and will have the skills to pass the 6G weld test to ASME & other standards. (No prerequisite)

Lab Description

Each student will learn safety, welding rod functions, how to do cutting procedures using cutting torch or gauging. Students will weld in various positions. In order to complete the course student must be able to pass a skills test after each welding position which consist of a visual inspection and bend test.

SHIELDED METAL ARC WELDING (SMAW-PLATE) 96 HRS.

Course Description

The Shielded Metal Arc Welding course is designed to teach students about arc welding safety and the Shielded Metal Arc Welding process (SMAW-Plate), proper techniques and electrode selection for welding plate in various welding positions (1G,2G,3G,4G) to meet ASME welding code. Upon completion of this course, the student will be able to perform general entry level production and maintenance welding in fabrication shop, machine shop, oilfield, pipeline, petrochemical, power plant or refineries on mild steel, stainless steel and carbon steel. This course contains 24 hours of lecture and 72 hours of lab, which totals 96 clock hours. This course will last 6 weeks. In order to complete course student must pass a skills test. At the completion of the course each student will receive a certificate of completion.

Shielded Metal Arc Welding Outline

Subject Title Introduction to Shielded Metal Arc Welding

The approximate time to complete the SMAW Plate course is six weeks for the day and evening class.

Introduction to Shielded Metal Arc Welding Description

Each student will have an understanding of how the SMAW process works and able to perform a fillet and groove weld with and without backing in all positions with a 6010 and 7018 electrode. (No prerequisite)

Lab Description

Each student will learn safety, welding rod functions, and how to do cutting procedures using cutting torch or gauging. Students will weld in various

positions. In order to complete the course student must be able to pass a skills test after each welding position.



GAS METAL ARC WELDING (GMAW) 48 HRS.

Course Description

The Gas Metal Arc Welding course is designed to teach students about arc welding safety and the Gas Metal Arc Welding process (GMAW) and proper techniques for welding. Upon completion of this course, the student will be able to become employed and perform general entry level structural welding in fabrication shop, machine shop, petrochemical, power plant and refineries. This course contains 12 hours of lecture and 36 hours of lab, which totals 48 clock hours. This course will last 3 weeks. In order to complete course student must pass a skills test. At the completion of the course each student will receive a certificate of completion.

Gas Metal Arc Welding Outline

Subject Title Introduction to Gas Metal Arc Welding

The approximate time to complete the Gas Metal Arc Welding course is two weeks for the day and evening class.

Introduction to Gas Metal Arc Welding Description

Each student will have an understanding of how the GMAW process works and be able to perform a fillet and groove weld with and without backing in all positions. (No prerequisite)

Lab Description

Each student will learn safety, GMAW functions and how to do cutting procedures using cutting torch or gauging. Students will weld in various positions. In order to complete the course student must be able to pass a skills test after each welding position which consist of a visual inspection and bend test.

FLUX CORE ARC WELDING (FCAW)

48 HRS.

Course Description

The Flux Core Arc Welding course is designed to teach students about arc welding safety and the flux core arc welding process (FCAW) and proper techniques for welding. Upon completion of this course, the student will be able to perform general entry level structural welding in fabrication shop, machine shop, petrochemical, power plant and refineries. This course contains 12 hours of lecture and 36 hours of lab, which totals 48 clock hours. This course will last 3 weeks. In order to complete course student must pass a skills test. At the completion of the course each student will receive a certificate of completion.

Flux Core Arc Welding Outline

Subject Title Introduction to Flux Core Arc Welding

The approximate time to complete the Flux Core Arc Welding course is three weeks for the day and evening class.

Introduction to Flux Core Arc Welding Description

Each student will have an understanding of how the FCAW process works and be able to perform a fillet and groove weld with and without backing in all positions. (No Prerequisite)

Lab Description

Each student will learn safety, FCAW functions and how to do cutting procedures using cutting torch or gauging. Students will weld in various positions. In order to complete the course student must be able to pass a skills test after each welding position which consist of a visual inspection and bend test.