

COURSE DESCRIPTIONS

WELDING TECHNOLOGY

WLD 1103: Introduction to Thermal Cutting

Students will learn the principles and procedures for oxyfuel cutting, plasma cutting, and carbon arc gouging. Safe shop practices will be emphasized. Ozark CTE General Technology Fee: \$51, Ozark CF Welding Fee: \$150.

WLD 1202: Blueprint Reading

Students will learn to read and interpret various kinds of blueprints and working drawings. AWS welding symbols and their meanings will be taught. Ozark CTE General Technology Fee: \$34, Ozark CF Welding Fee: \$100.

WLD 1212: Industrial Safety in Welding

The study of safe and industry accepted practices and equipment necessary for the safe use of all existing manual methods of welding. Student will learn to identify common industrial and occupational hazards and means to avoid accidents.

Ozark CTE General Technology Fee: \$34, Ozark CF Welding Fee: \$100.

WLD 1224: Introduction to Arc Welding

This course is intended to teach theory and application of basic Stick welding (SMAW). It will cover safety, correct selection of electrodes, practicing beds and the application of correct welds on actual structures.

This course is designated as "Green".

Ozark CTE General Technology Fee: \$68, Ozark CF Welding Fee: \$200.

WLD 1302: Metallurgy

An elementary and practical approach to the structure, marking classifications, machinability and identification of metals and their properties. This will require the use of various manufacturer catalogs, bulletins and charts. Basic heat treatment and how metals are affected will be discussed.

Ozark CTE General Technology Fee: \$34, Ozark CF Welding Fee: \$100.

WLD 1403: Welding for Trades and Industry

This course is intended to teach theory and application of welding for trades and industry. This course will be specific to the needs and applicable to each area of interest. It will cover basic welding safety, correct cutting torch handling, basic gas metal arc welding (MIG), gas tungsten arc welding (TIG), and shielded metal arc welding. Specific applications will be deemed by the appropriate advisor.

Ozark CTE General Technology Fee: \$51, Ozark CF Welding Fee: \$150.

WLD 1405: Position Welding

Pre-requisite: WLD 1224 Introduction to Arc Welding or permission of instructor. A continuation of the study of Arc welding concentrating on more advanced weld positions and varied electrodes. This course will also discuss hard facing, padding, and the techniques for welding pipe.

Ozark CTE General Technology Fee: \$85, Ozark Welding Fee: \$250.

WLD 1503: Gas Metal Arc (MIG) Welding

Pre-requisite: WLD 1405 Position Welding or permission of instructor. Provides student with theory and application of wire feed processes also known as MIG Welding or semi-automatic and automatic processes. The student also gains an understanding of the basic gases and mixtures used for different materials.

This course is designated as "Green".

Ozark CTE General Technology Fee: \$51, Ozark Welding Fee: \$150.

WLD 1603: Gas Tungsten Arc (TIG) Welding

Pre-requisite: WLD 1405 Position Welding or permission of instructor. Study of Gas Tungsten Arc (TIG) Welding commonly referred to as TIG or Heliarc. This course will focus on shielding gases, equipment and feasible use situations. Safety will be addressed and demonstrated in a lab experience.

This course is designated as "Green".

Ozark CTE General Technology Fee: \$51, Ozark Welding Fee: \$150.

WLD 1702: Weldment Testing

Covers different types of testing such as destructive and nondestructive. Students will study guided bend, radiographic, ultrasonic, magnetic particle and dye penetrant tests, and take practical tests that are designed according to AWS D1.1 and ASME Section IX industry standard codes.

Ozark CTE General Technology Fee: \$34, Ozark Welding Fee: \$100.

WLD 1804: Certification Welding I

Student practices with projects that are designed according to AWS D1.1 and ASME Section IX industry standard codes. The implementation and approval of the codes in accordance with AWS D1.1 and ASME section IX will be addressed. Documentation of procedure will also be covered.

Ozark CTE General Technology Fee: \$68, Ozark Welding Fee: \$200.

WLD 2804: Certification Welding II

This is a continuation of WLD 1804 Certification Welding I. Student practices and takes practical tests that are designed according to AWS D1.1 and ASME Section IX industry standard codes. The implementation and approval of the codes in accordance with these standards will be addressed. Documentation of procedure will also be covered. Students in this class will have more emphasis in pipe certification.
Ozark CTE General Technology Fee: \$68. Ozark Welding Fee: \$200.