Tullahoma City Schools High School Course Syllabus

Course	Welding II	Teacher: Jerry Green
Number	6033	School: Tullahoma High
Department	СТЕ	Year: 2018-2019
Course Description	Welding II is designed	ed to provide students with opportunities to effective

Welding II is designed to provide students with opportunities to effectively perform cutting and welding applications of increasingly complexity used in the advanced manufacturing industry. Proficient students will build on the knowledge and skills of the Welding I course and apply them in novel environments, while learning additional welding techniques not covered in previous courses.

Primary Objectives

- Identify and demonstrate shop safety.
- Identify and demonstrate all aspects of welding safety.
- Define the welding process, welding terminology, and history of welding.
- Identify the five basic welding joints and welding symbols.
- Demonstrate safe setup, operation, and shutdown of an oxy-fuel torch.
- Demonstrate safe setup, operation and breakdown of basic plasma arc cutting equipment.
- Explain the importance and use of ventilation.
- Explain the mechanical properties of metals and their importance in welding processes.
- Identify basics of SMAW, GMAW, FCAW, GTAW
- Demonstrate the ability to work cooperatively with others in a professional setting.
- Be aware of challenges and responsibilities in the welding production industry with an awareness of the employment opportunities and advancement possibilities.

Major Topics Covered by Quarter (projected schedule)

TOPIC

Shop / Machine Safety Welding Joints and Positions Basic Oxyacetylene Welding Basic Oxyacetylene Cutting Basic GMAW, FCAW, GTAW Plasma Cutting

Note: The students will work in these areas of welding and some metal fabrication. Due to the rotational nature of the lab, the students may be involved in different activities at one time. All welding areas will be covered 1st nine weeks and the skill level will be worked on the entire semester.

Method of Evaluation

Lab Competencies Class/Homework Lab Participation Lab project Test

Student Expectations/ Responsibilities

Attend class everyday Be respectful of the lab, the equipment and others Complete all assignments on time Participate in group activities A willingness to learn and challenge themselves everyday Clean up after themselves and put the equipment away Practice safe working habits Follow all shop and classroom rules