

COURSE SYLLABUS

ORIENTATION TRAINING FOR IRONWORKERS

Course Description:

This course is designed to provide the Iron Worker student with the initial knowledge and skills required for his or her first day on the job site. Major topics covered in this course include basic safety, measuring, and hand tools. The student will also be introduced to rigging, welding, structural steel erection, architectural and ornamental ironworking, and reinforcing ironworking.

Course Objective:

The objective of this course is to enable the student to go to work as an apprentice Ironworker.

Learning Outcomes:

Upon successful completion of this course, the student will be able to:

- Describe the history of the Ironworkers and the structure of the union and apprenticeship program.
- Follow basic safety guidelines.
- Demonstrate the ability to measure.
- Demonstrate the ability to use basic hand tools.
- Tie knots required for basic rigging operations.
- Set up and break down oxyfuel equipment and connect leads for shielded metal arc welding.
- Describe the roles and responsibilities of the structural Ironworker.
- Describe the roles and responsibilities of the architectural and ornamental Ironworker.
- Describe the roles and responsibilities of the reinforcing Ironworker.

Target Audience:

This course is designed for new Apprentices.

Course Materials:

- **Orientation Training for Ironworkers** Reference Manual
- **Orientation Training for Ironworkers** Student Workbook
- **Orientation Training for Ironworkers** Instructor Guide (for instructors only)
- **Orientation Training for Ironworkers** DVD
- **Assignment Sheets** (in the Student Workbook)
- **Job Sheets** (in the Student Workbook)
- **Orientation Training for Ironworkers CD-ROM** (for instructors only)
- **Test** (in the Instructor Guide)

A Word about Safety

The importance of safety will be addressed and reinforced in all hands-on activities in the classroom, in the shop, and on the job site.

Course Assignments:

There is one assignment sheet for each unit of instruction. Students will complete these assignment sheets prior to and/or during course sessions as determined by the instructor. There are also several job sheets so that students will be expected to demonstrate their ability to safely perform the skills outlined in the job sheets.

Course Grading Criteria:

To successfully complete this course, the student must successfully complete all of the assignment sheets, demonstrate the skills in the job sheets, and pass the knowledge test.