

COURSE SYLLABUS

INTRODUCTION TO BLUEPRINT READING

Course Description:

This course is designed to provide the Iron Worker student with training in the elements of construction drawing, steel frame construction drawings, types of drawings, architectural and engineering drawings, and conveyor drawings.

Course Objective:

The objective of this course is to enable a student to read construction blueprints.

Learning Outcomes:

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

- Identify the types of construction drawings.
- Interpret elements of drawings and common abbreviations and acronyms.
- Interpret symbols and drawing information.
- Read the basic elements of a drawing.

Target Audience:

This course is designed for Apprentices and available to Journeymen.

Length of Course:

This course is designed to be offered during a total of 20 hours of classroom instruction.

Course Materials:

- **Introduction to Blueprint Reading** Reference Manual
- **Introduction to Blueprint Reading** Instructor Guide (for instructors only)
- **Introduction to Blueprint Reading** Student Workbook and Drawings
- **Introduction to Blueprint Reading** DVD
- **Assignment Sheets** (in the Student Workbook)
- **Job Sheets** (in the Student Workbook)
- **Tests** (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 are assignment sheets and job sheets for each unit of instruction plus several of the assignments are keyed to the drawings. Students will complete these assignment sheets and job sheets prior to and/or during course sessions as determined by the instructor.

Course Grading Criteria:

To successfully complete this course, the student must complete all of the assignment sheets, job sheets, and pass the knowledge tests.

Topics/Activities

Introductions

Review of the course syllabus including the course objectives

Discussion of classroom and outside assignments

Introduction to Blueprint Reading

Introduction to Blueprint Reading

Lecture and discussion

Test – Introduction to Blueprint Reading

Elements and Abbreviations

Lecture and discussion

Test – Element and Abbreviations

Symbols and Drawing Information

Lecture and discussion

Symbols and Drawing Information

Test – Symbols and Drawing Information

Lecture and discussion

Basic Elements of a Drawing

Lecture and discussion

Basic Elements of a Drawing

Test – Basic Elements of a Drawing

Course summary