

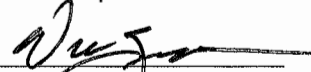
CALIFORNIA APPRENTICESHIP COUNCIL
IRONWORKER INDUSTRY
FIELD IRONWORKER
ADVISORY COMMITTEE

FIELD IRONWORKER TRAINING CRITERIA

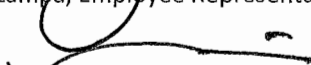
47-2171.00

47-2221.00

Approval of Representatives



Dick Zampa, Employee Representative



Richard Battaini, Employer Representative

JUNE 2019

IRONWORKER INDUSTRY FIELD IRONWORKER TRAINING CRITERIA

47-2171.00 & 47-2221.00

LENGTH OF TRAINING

Program sponsors shall establish a minimum four (4) year program of not less than 5,600 hours of on-the-job training.

RELATED AND SUPPLEMENTAL INSTRUCTION

The required prescribed courses of related and supplemental instruction shall be no less than 160 hours per year. This instruction must include at a minimum the related and supplemental training processes listed in Exhibit "A".

ON THE JOB TRAINING

(Skills to be learned) See Exhibit "B"

COMPETENCY TESTING

All Apprentices must pass a competency test prior to the time of their classification advancement to the next higher period. The test shall be based on Related and Supplemental Instruction.

COMPLETION PERCENTAGES

Program sponsors must have a 50% graduation rate for all apprentices that satisfactorily complete the program's probationary period.

REVISIONS

The schedule for revisions to the Field Ironworker Industry Training criteria shall be in accordance with Labor Code Section 212.01.

EXHIBIT "A"

RELATED AND SUPPLEMENTAL INSTRUCTION TOPICS FOR FIELD IRONWORKER TRAINING CRITERIA

RELATED AND SUPPLEMENTAL INSTRUCTION:

- ◇ TRADE MATH
- ◇ SAFETY
- ◇ OXY ACETYLENE CUTTING
- ◇ WELDING
- ◇ TOOLS AND EQUIPMENT
- ◇ TRADE ORIENTATIONS (STRUCTURAL, REINFORCING, ARCHITECTURAL, MISCELLANEOUS IRON)
- ◇ BLUEPRINT READING
- ◇ FASTNERS
- ◇ FABRICATION METHODS
- ◇ RIGGING (INCLUDES CRANE SIGNALING & FLAGGING)
- ◇ PRECAST ERECTION
- ◇ METAL BUILDING ERECTION
- ◇ REINFORCING STEEL
- ◇ POST TENSIONING
- ◇ STRUCTURAL STEEL ERECTION
- ◇ ARCHITECTURAL
- ◇ FIRST AID/CPR (AMERICAN RED CROSS STANDARDS)
OSHA 30
- ◇ GREEN CONSTRUCTION (INCLUDING BUT NOT LIMITED TO THE PHILOSOPHY AND SCIENCE OF GREEN TECHNOLOGY AND GREEN BUILDING AND CONSTRUCTION TECHNIQUES, GREEN WASTE MANAGEMENT, THE FABRICATION AND INSTALLATION OF ENERGY EFFICIENT SYSTEMS INCLUDING SOLAR, WIND AND HYDRO SYSTEMS)
- ◇ FOREMAN TRAINING
- FIRE WATCH TRAINING
- TRAFFIC FLAGGER TRAINING
- FALL PROTECTION TRAINING

EXHIBIT "B"

ON THE JOB TRAINING

The work processes in which the Apprentice shall be trained are as follows. Work processes will not necessarily be conducted in the order listed, nor will they necessarily be conducted continuously.

WORK PROCESSES – FIELD IRONWORKER

- A. Fabrication (may include but not limited to the following: (1350 Hours Minimum)**
- 1. Structural Steel, Reinforcing Steel, Architectural Metals, Composite Materials.**
 - 2. Layout, Welding, Oxy-Acetylene Burning, Drilling, Bolting, Bending, Assembling and Preparing Materials for Erection and Installation.**
- B. Installation (may include but not limited to the following) (2100 Hours Minimum)**
- 1. Installation of Structural Steel, Reinforcing Steel, Post Tensioning Cables, Architectural Metals, Composite Materials, Decking, Miscellaneous Metals and Rigging, Green Construction (includes Wind Turbines, Solar, Awnings and Shades)**
- C. Miscellaneous (2150 Hours Minimum)**
- 1. Safety**
 - 2. Job Planning**
 - 3. Tool and Equipment Use**
 - 4. Rigging (includes signaling and flagging)**
 - 5. Delivery and Cleanup**
 - 6. Repair**
 - 7. Green Construction**

Total Number of Minimum Hours: 5,600