

Course Descriptions - Summer 2026



Basic Commercial Blueprint Reading

DFTG 1023

10 Sessions

30 Hours

Prerequisite: None required.

This course is designed for office, field and professional support staff. Topics include: Evolution of the Construction Project (The Development of the Drawings & Specifications); Background Principles (Cracking the Code); Drawing Types Used in All Categories Drawings; Reading Drawings for Information; Overview of Architectural MEP Drawings and Specifications.

Basic Electrical Installation

ELPT 1002

6 Sessions

24 Hours

Prerequisite: None Required

In this course you will learn basic electrical safety and safe work practices. Material identification and handling, introduction to basic EMT Conduit Bending, Wall Rough using EMT and MC Cables, best practices, identifying conductors with branch circuits and systems, good work ethics, and skill objectives.

Basic to Advanced Welding Skills

WLDG 1000

12 Sessions

48 Hours

Prerequisite: None required

This course will consist of all types of welding from basic cutting to advanced welding. The student is allowed to choose what type of welding process he or she wants to learn. The course is designed to be 99% hands on for the beginning hobbyist to the advanced welder.

Conduit Bending - Beginner

ELPT 1090

2 Sessions

8 Hours

Prerequisite: None Required

In this course you will identify parts of a hand bender and identify markings as use. You will be able to demonstrate a stub 90 degree, offset and kick bends.

Conduit Bending - Intermediate/Advanced

ELPT 1091

2 Sessions

8 Hours

Prerequisite: None Required

In this course you will learn how to bend a Back-to-Bend 90 degree; a 3-Point Saddle, a 4-Point Saddle, how to correct twisted back-to-back 90, introduce Symmetrical Bends, and troubleshoot and make corrections to bends.

Electrical Journeyman Prep

ELPT 2001

11 Sessions

48 Hours

Prerequisite (all are required): (1) At least three years experience in Electrical Trade. (2) Basic math skills with ability to solve simple algebraic equations.

This class will consist of: an intensive NEC review of Services and Service Equipment; Wiring Methods and Installation; Cabinets; Panelboards; Switchboards; Boxes and Conduit Bodies; Conductors; Motors and Generators; Utilization Equipment and Devices; Special Occupancies and Uses; Ambient Temperature and Other Conductor Derating Factors; Low Voltage Systems NEC requirements; and Hazardous locations.

Electrical Master Prep

ELPT 1040

12 Sessions

52 Hours

Prerequisite (all are required): (1) At least three years experience in Electrical Trade and preferably some classroom hours. (2) Basic math skills with ability to solve simple algebraic equations.

This class will consist of: an intensive NEC review of Services and Service Equipment; Wiring Methods and Installation; Conductors; Special Occupancies and Uses; Ambient Temperature Derating; Electrical Calculations of Single-Family, Multi-Family and Two-Family Dwellings; and Electrical Calculations of Commercial Structures (i.e. Schools, Offices, Stores, Banks, Marinas, etc.).

EXCEL Beginner

ITSW 1058

4 Sessions

12 Hours

Prerequisite: None required.

An introduction to using Microsoft Excel. Topics include: Data entry/editing, Creating formulas and functions, Formatting spreadsheets, Creating charts, Proofreading sheets

HVAC Basic Maintenance/Troubleshooting Accessories

HART 1094

10 Sessions

40 Hours

Prerequisite: None Required

In this course you will learn basic safety, LOTO, PPE environmental extremes, tools rigging, electrical & gas furnaces, reading meters, motors, AC/DC circuits wiring diagrams, basic troubleshooting in cooling and heating, piping, type of copper and pasting, soldering and brazing, basic maintenance, amps, voltage, cleanliness, and freon levels.

Mechanical Installations

8 Sessions

32 Hours

Prerequisite: None Required

In this course you will learn mega press and pro-press systems, soldering and brazing, flanges and groves as well as threading, air-pipe and specialty connectors.

Pipefitting Safety Hangars and Support

7 Sessions 28 Hours

Prerequisite: None Required

In this course you will learn construction drawings and layouts, identify, build and install hangers and supports. Basic power tool safety, ladder safety including saws, drills, hepa vacs, usage and safety.

Service Plumber

PFPB 1011

7 Sessions 28 Hours

In this course you will learn about service plumbing calls, today's technology with water heaters and code requirements, basic electricity related to plumbing, critical thinking and real-world scenarios, scheduling (PROCORE), tools including draining cleaning machines, hydro-jets, disposal pumps, plumbing theory, and codes.

STP 3 - Planning & Scheduling

CNBT 1072

5 Sessions 20 Hours

Prerequisite: None Required.

This course will help construction supervisors understand ways in which planning and scheduling saves time and money, while increasing quality in the construction process. Topics include: Preparing The Project Plan; Communicating The Plan; The Critical Path; Computer Use in Scheduling; Using The Schedule on The Jobsite; Updating The Construction Schedule; The Schedule As Documentation; and Using Planning And Scheduling.

STP 4 - Contract Documents

CNBT 1073

5 Sessions 20 Hours

Prerequisite: None Required.

This course will provide information about contract documents and construction law to help supervisors recognize the roles and responsibilities of all contracted parties, develop and understand how contract documents can be helpful to solve problems and resolve conflicts, and to develop positive relationships between all parties in the construction process. Topics include: Introduction To Contract Documents and Construction Law; Creating a Positive Environment Through Partnering Contractual Relationships; Contract Forms and Documents; Managing General Conditions; Good Documentation Practice Changes; Differing Site Conditions; Time Impacts; and Negotiation of Resolutions.

STP 5 - Improving Productivity & Managing Project Cost

BMGT 1021

8 Sessions 30 Hours

Prerequisite: None Required.

This course will cover: understanding how project estimates are compiled, how to compare actual project costs with those estimated, and how to control costs to meet the estimate. This course also details how productivity is measured, how the supervisor plays a major role in increasing jobsite productivity, and how a small increase in productivity can have a significant impact on the time and cost of a project.

Topics include: Construction Estimates; Who Controls Project Costs; Reporting and Analyzing Actual Costs; Planning for Cost Control cost control strategies; Labor Cost Variances; Working With Project Partners; Managing Risk and Loss Potentials; Cost Control Strategies; Post-Project Evaluations; Benchmarking Construction Productivity; Improving Productivity Through Pre-Planning; New Skills For Effective Supervision; Personnel Management; Equipment Management For Productivity Improvement; Jobsite Productivity; Planning and Scheduling; Quantifying Lost Labor Productivity and Record Keeping; Control, Changes, & Defect Analysis.

STP 6 - Risk Management & Problem Solving

OSHT 1015

6 Sessions

24 Hours

Prerequisite: None Required.

This course will cover the roles and responsibilities of a construction supervisor in accident prevention and loss control. Topics include: Safety Leadership; Communication and Expectations; Planning for Site Safety; Site Safety Management; Site Security and Protection; Multi-Employer Jobsite Safety; Construction Risk Management; Safety and Human Resources; and Regulatory Procedures, Record Keeping & Documents.

TIG Welding

WLDG 1091

7 Sessions

28 Hours

Prerequisite: None Required

This is a TIG (Tungsten Inert Gas) course, also known as GTAW (Gas Tungsten Arc Welding). The course will cover equipment, filler metals, the ASME welding code, and the principles of GTAW. The focus will be on setting up equipment for open-root, V-groove welds on carbon steel and stainless-steel pipes, as well as procedures for making open-root V-groove welds with the equipment on the pipe in the 2G, 5G, and 6G positions.