

Course Descriptions - Summer 2021

Applied Construction Math I

TECM 1001

12 Sessions

48 Hours

This course is designed for students who have little math skills (grade school level), or who have not had a math course for several years. Upon completion, this course will provide an understanding of fundamental operations using whole numbers, fractions, decimals, and percentages. Basic math skills are strengthened through applications found in the construction industry. Students are introduced to logical problem solving.

Basic Commercial Blueprint Reading

DFTG 1023

10 Sessions

30 Hours

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

Basic to Advanced Welding Skills

WLDG 1000

12 Sessions

48 Hours

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.

Commercial/Industrial Blueprint Reading

CBNT 2310

5 Sessions

48 Hours

Enrollment Deadline for Construction Management (Credit Classes) is Friday, May 21, 2021.

This is an online course; once enrolled you will receive an email from North Lake College with your class and book information.

Blueprint reading for commercial/industrial construction.

Books/Materials for this course will be distributed by North Lake College; this is part of the IncludED program.

Construction Management I

5 Sessions

48 Hours

Enrollment Deadline for Construction Management (Credit Classes) is Friday, May 21, 2021.

This is an online course; once enrolled you will receive an email from North Lake College with your class and book information.

Students will define terms associated with construction supervision, leadership, motivation, problem solving, and decision making. Students will demonstrate problem solving and decision-making skills in construction problems. They will apply green and sustainable building codes and standards and demonstrate techniques for successful contractor interaction including professional protocol and communication.

Books/Materials for this course will be distributed by North Lake College; this is part of the IncludedED program.

Construction Methods/Materials I

5 Sessions

64 Hours

Enrollment Deadline for Construction Management (Credit Classes) is Friday, May 21, 2021.

This is an online course; once enrolled you will receive an email from North Lake College with your class and book information.

An introduction to construction materials and methods and their applications. This course is cross-listed as CNBT 1411. The student may register for either CNBT 1311 or CNBT 1411 but may receive credit for only one of the two.

Books/Materials for this course will be distributed by North Lake College; this is part of the IncludedED program.

Electrical Journeyman Prep

ELPT 2001

12 Sessions

48 Hours

Prerequisite - All Required: (1) At least three (3) years experience in Electrical Trade. (2) Basic math skills with ability to solve simple algebraic equations.

Recommended: Some classroom hours

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.

Note: Students must have a copy of the 2020 NEC edition.

Electrical Master Prep

ELPT 1015

12 Sessions

48 Hours

Prerequisite - All Required: (1) At least three (3) years experience in Electrical Trade and preferably some classroom hours. (2) Basic math skills with ability to solve simple algebraic equations. (3) Journeyman's License

Recommended: Some classroom hours

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, electrical calculations of commercial structures, i.e. schools, offices, stores, banks, marinas, etc.

Note: Students must have a copy of the 2020 NEC edition.

Piping Isometric

PFPB 1006

16 Sessions

48 Hours

This class defines an Isometric Drawing, it incorporates commercial drawings, mechanical pipe and plumbing details and shows how to draw in an isometric format. Emphasis is stressed on how to utilize isometrics in construction day to day operations, including planning of material take offs, scheduling manpower, equipment and etc.

Project Scheduling

CNBT 1359

10 Sessions

64 Hours

Enrollment Deadline for Construction Management (Credit Classes) is Friday, May 21, 2021.

This is an online course; once enrolled you will receive an email from North Lake College with your class and book information.

A study of conventional scheduling using critical-path-method; precedence networks; bar charts; monthly reports; and fast track scheduling.

Books/Materials for this course will be distributed by North Lake College; this is part of the IncludED program.

STP 1 - Leadership & Motivation

BMGT 1020

6 Sessions

24 Hours

This course will describe the value of effective supervision of workers and improve the construction supervisor's ability to lead and motivate others. Topics include: The dollar and sense of people in construction: the role of the construction supervisor; Helping people perform better; Motivating and leading others; Positive feedback; Training and orienting crew members; Teams and team building; Leadership skills in action.

STP 2 - Communication

BMGT 1022

6 Sessions

24 Hours

The course presents a body of knowledge and skills that today's construction supervisors need in order to be effective communicators on their job site. Topics include; Effective Communication; Learning to Listen; Carrying on Conversations; Persuasion, Negotiation, and Confrontation; Communicating with Your Crew; Putting it in Writing; Meetings that Work; Electronic Communication; and Improving Communication.

STP 3 - Planning & Scheduling

CNBT 1072

5 Sessions

20 Hours

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

This course will provide information about contract documents and construction law to help supervisors recognize the roles and responsibilities of all contracted parties, to develop and the understanding of 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 practices Changes; Differing site conditions; Time impacts; and Negotiation of resolutions.

STP 5 Improving Productivity & Managing

BMGT 1021

8 Sessions

30 Hours

This course covers 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, and defect analysis.