Public Sector Safety & Health Fundamentals Certificate Program for Construction

Participants must complete a minimum of seven courses, comprised of required and elective courses, that include a minimum of 68 contact hours of training through OTI Education Center courses to earn the certificate in *Public Sector Safety & Health Fundamentals for Construction*.

- Participants must complete the three Required Courses as listed below for a minimum of 39 contact hours of training.
- Participants must complete a minimum of four Elective Courses from the Construction Industry list below that include a minimum of 29 contact hours of training.

Required Courses		
Course Number and Title	Course Description	Minimum Contact Hours
OSHA #510 *Occupational Safety and Health Standards for Construction*	This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide.	26
OSHA #7500 *Introduction to Safety and Health Management*	Using interactive assignments and thought-provoking group projects, students of this one day workshop come away with a strong understanding of the benefits in implementing a safety and health management system in the workplace.	5.5
OSHA #7505 *Introduction to Accident Investigation*	Introduction to accident investigation provides an introduction to basic accident investigation procedures and describes accident analysis techniques. The goal of the course is to help participants gain the basic skills necessary to conduct an effective accident investigation at their workplace. The target audience is the employer, manager, employee or employee representative who, as part of a firm's safety and health system, would be involved in conducting accident and/or near-miss investigations.	7.5
Total Hours		39

Elective Courses for Construction Industry		
Course Name and Title	Course Description	Minimum Contact Hours
OSHA #7410 *Managing Excavation Hazards* OR OSHA #3015 *Excavation, Trenching and Soil Mechanics*	In this one-day course, students will learn about the role and responsibility of the employer to assign a competent person to the excavation site and arm that person with the knowledge to perform the work properly. Topics include the understanding and application of definitions relating to OSHA's Excavation Standard (Subpart P), excavation hazards and control measures, soil analysis techniques, protective system requirements and emergency response. At the conclusion of this course, the participant will understand the importance and duties of a competent person towards excavation work and will have the knowledge and skills that are required to perform those duties. This course focuses on OSHA standards and on the safety aspects of excavation and trenching. Students are introduced to practical soil mechanics and its relationship to the stability of shored and unshored slopes and walls of excavations. Various types of shoring (wood timbers and hydraulic) are covered. Testing methods are demonstrated and a one-day field exercise is conducted, allowing students to use instruments such as penetrometers, torvane shears, and engineering rods.	6.5 20
OSHA #3095 *Electrical Standards*	This course covers OSHA electrical standards and the hazards associated with electrical installations and equipment. Course topics include; single- and three-phase systems, cord- and plug-connected and fixed equipment, grounding, ground fault circuit interrupters, and safety-related work practices. Emphasis is placed on electrical hazard recognition and OSHA standards, policies, and procedures and applicable portions of the National Electrical Code (NEC). Students will participate in workshops on the safe and correct use of electrical testing equipment. Upon course completion, students will be able to; understand the severity of electrical current on the human body, detect electrical hazards and determine applicable OSHA standard, recognize actual and potential electrical hazards and determine hazard abatement, understand proper use of electrical testing equipment.	26

Elective Courses for Construction Industry		
Course Name and Title	Course Description	Minimum Contact Hours
OSHA #7405 *Fall Hazard Awareness for the Construction Industry* OR OSHA #3115 *Fall Protection*	The focus of this 5 hour course is to identify, evaluate, and prevent or control fall hazards at construction sites. The course focuses on falls to a lower level not falls to the same level resulting from slips and falls. The target audience is the small construction employer, business owner, or manager who would like to obtain information about fall hazards found in the workplace. The training is also suitable for employees and employee representatives. Topics include identifying fall hazards, analyzing fall hazards, and preventing fall hazards as well as OSHA resources addressing fall hazards. This course provides an overview of state-of-the-art technology for fall protection and current OSHA requirements. Topics covered include the principles of fall protection, the components of fall arrest systems, the limitations of fall arrest equipment, and OSHA policies regarding fall protection. Course features a one-day field exercise demonstrating fall protection equipment.	5 18
OSHA #7105 *Evacuation and Emergency Planning*	Evacuation and emergency planning focuses on OSHA requirements for emergency action plans and fire protection plans. Preparing for emergencies is a basic principle of workplace safety and health. Participants will learn: (1) reasons for emergency action plans and fire prevention plans and when they are required for a workplace; (2) elements of a good evacuation plan; and (3) features of design and maintenance of good exit routes. The optional session for this course will focus on assessment of risk for terrorist attack and how to utilize OSHA's two matrices, evacuation planning and fire and explosion, as tools in planning for emergencies.	4
OSHA #7110 *Safe Bolting: Principles and Practices*	This course covers awareness of safety issues involved in bolting applications. Course topics include; safe operation and handling of high powered bolting tools, pressure vessels and piping, machinery or mechanical joints, and structural connections. The course provides practical group activities and workshops. Upon course completion, the student will possess the knowledge and skills to recognize hazards present in a bolting application and methods for control and abatement of the hazard.	7

Elective Courses for Construction Industry		
Course Name and Title	Course Description	Minimum Contact Hours
OSHA #7205 *Health Hazard Awareness*	This course provides an introduction to common health hazards that are encountered in the workplace. These health hazards will include exposure to chemicals, asbestos, silica and lead. The course will feature these topics: identification of hazard; sources of exposure; health hazard information; evaluation of exposure; and engineering and work practice controls. The course materials will include an instructor and student manual; workshops and group activities; and PowerPoint presentations. The course is designed as an awareness course for employers and employees.	6
OSHA #7400 *Noise in the Construction Industry*	This course covers the evaluation and reduction of noise in the construction industry. Course topics include OSHA construction noise standards, properties of sound, noise-induced hearing loss, noise exposure control, selection and use of hearing protection, conducting sound level surveys, and worker training. Classroom demonstrations of noise instrumentation and hearing protection devices are featured. The target audience is the construction employer or representative designated with the responsibility to develop a construction noise program. At the conclusion of this course, the student will understand properties of sound and its relationship to noise-induced hearing loss, hearing protection usage, conducting sound level surveys and training workers.	5.5
OSHA #7845 *Recordkeeping Rule Seminar*	This course is designed to assist employers in identifying and fulfilling their responsibilities for posting certain records, maintaining records of illnesses and injuries and reporting specific cases to OSHA. Participants who successfully complete this course will be able to identify OSHA requirements and complete new OSHA's forms 300, 300A and 301.	4