

A stylized sun graphic with a large central circle and several curved rays extending outwards. The sun is rendered in a gradient of yellow and orange. The year '09' is prominently displayed in large, bold, black font in the upper right quadrant, partially overlapping the sun's rays.

09

2009 Professional Training Portfolio

the florida transportation **technology transfer** center
with the center for transportation training

We look forward to serving your training needs in the coming year. Please review this comprehensive portfolio featuring training offerings for the Florida T² Center and the Center for Transportation Training (CTT).

Both Centers provide required and elective training to add to and improve the skills of your entire organization. Your employees will benefit from the technical knowledge presented in these courses.

Sponsors/Partnerships and Training Locations

Florida T² Center training opportunities are supported in part through grants and partnerships with various offices of the Florida Department of Transportation and the Federal Highway Administration. Classes offered as part of the Local Technical Assistance Program (LTAP), Safety Circuit Rider (SCR) Program, and Product Demonstration Showcase (PDS) Program are conducted at convenient locations around the state. Training can also be arranged exclusively for your organization and location. Our Mobile Video Training (MVT) sessions are held at the requesting agency. See Page 18 for scheduling details. Check ctt.ce.ufl.edu for locations of CTQP or CTT training sponsored by the Center for Transportation Training.

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* – CTT Contact **352.846.3593**

ADA

ADA/Accessibility Requirements for Highway Design and Pedestrians

Target Audience: Roadway designers, directors, ADA coordinators, safety inspectors, project managers, technicians, consultants

Learn ADA requirements for public agencies to comply with design, construction, operation, and maintenance of pedestrian facilities within public right-of-way. Includes extensive technical and regulatory grounds, ranging from ADA/accessibility requirements and design standards, good practices, ADA self evaluations and transition plans.

CEU/PDH 1.2/12

Public \$145/Private \$240

12 hrs

ADA – Facilities Access

Target Audience: Facility designers, directors, ADA coordinators, safety inspectors, project managers, technicians, consultants

This is an overview of the Americans with Disabilities Act (ADA), the Florida Accessibility Code and revisions. Discussions include regulation impact on agency personnel and project staff responsibilities, building/roadway accessibility design standards/procedures, and Titles II and III ADAAG requirements.

CEU/PDH 0.7/7.0

Public \$145/Private \$240

7 hrs

Aggregates

Limerock Bearing Ratio (LBR) Technician – CTQP

Target Audience: Technicians who perform acceptance tests to verify aggregate material quality

Become more knowledgeable and proficient in testing and inspecting mineral aggregates and soils by learning the testing methods covered in this course.

PDH 8

Course with written and proficiency exams \$585

16 hrs

Qualified Aggregate Sampler – CTQP

Target Audience: All employees responsible for sampling aggregates for verification testing

This course presents everything technicians need to know to correctly sample and reduce mineral aggregates.

Course with written and proficiency exams \$350

8 hrs

Asphalt

Asphalt Combo – Inspection and Maintenance

Target Audience: Design, construction, and maintenance engineers and technicians involved with pavement preservation and rehabilitation techniques

This workshop teaches pavement distress evaluation techniques to determine materials, equipment and procedures needed for effective crack sealing, asphalt patching and utility repair for quality/cost-effective asphalt surface treatments. Ample time is allowed for maintenance issue questions.

CEU/PDH 0.6/6.0

Public \$175/Private \$250

6 hrs

Asphalt Inspection

Target Audience: Inspectors, contractors, technicians, personnel with construction inspection job duties

Discussion includes basic concepts of asphalt materials and inspection techniques and keys to obtaining high quality work on new construction and resurfacing projects. Common problem areas and how to properly correct them are presented. Does not lead to qualification associated with the Construction Training Qualification Program (CTQP).

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Asphalt Mix Design – CTQP

Target Audience: Employees responsible for designing hot mix asphalt

Learn to design Superpave mixes and test aggregate components in accordance with standard test methods so results reflect actual components and mix characteristics.

PDH 24

Course with written exam \$700

28 hrs

Asphalt Pavement Maintenance

Target Audience: Inspectors, contractors, road crew supervisors, personnel with construction inspection job duties

This workshop focuses on materials, construction details, and maintenance practices that help extend asphalt pavement service life. Videos and sketches demonstrate proper and improper maintenance techniques. Ample time is allowed for questions on specific maintenance issues.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Asphalt Paving Basics for Florida Counties

Target Audience: Maintenance field technicians, maintenance supervisors, construction workers, inspectors, designers, pavement management technicians

This one-day course is patterned after the Asphalt Paving Level 1 course and can be customized to fit your needs. The course includes random sampling at the plant and roadway; hands-on demonstration of rolling straight edge, cross slope and temperature measurement; core sampling; tack coat spread rate and hot mix asphalt yield calculations; and nuclear density determination, if required. A simplified, alternate exam is also available upon request.

Call Alyce at 352.273.1669 for information.

Asphalt Paving Level 1 – CTQP

Target Audience: All employees responsible for verifying roadway characteristics

Learn to use a rolling straight edge, perform core sampling, calculate yields, and take temperatures.

PDH 8

Course with written and proficiency exams \$350

8 hrs

Asphalt Paving Level 2 – CTQP

Target Audience: Roadway technicians, equipment operators, and paving supervisors

Take this course to review good construction practices and equipment operation techniques necessary to place and compact a Superpave mixture that meets requirements for smoothness, texture, density, cross slope, and thickness. Additional topics include project administration; surface preparation; specification requirements; HMA delivery, placement, and compaction; balancing production rates; and field testing and inspection.

CEU/PDH 1.6/16

Course with written exam \$700

24 hrs



Asphalt Plant Level 1 – CTQP

Target Audience: All employees responsible for verifying asphalt material quality

Learn to perform all tests used for quality control, verification, resolution, and acceptance of asphalt mix in accordance with standard test methods.

PDH 16

Course with written and proficiency exams \$945 24 hrs

Asphalt Plant Level 2 – CTQP

Target Audience: Plant technicians, inspectors, and operators

Covers materials management, specification requirements, plant calibration, and equipment operation necessary to produce a Superpave mixture that meets design criteria and mix production requirements.

PDH 16

Course with written exam \$700 24 hrs

Hot-Mix Asphalt Pavement Evaluation, Preservation and Rehabilitation

Target Audience: Design, construction, and maintenance engineers and technicians involved with pavement preservation and rehabilitation techniques

The course presents techniques to identify causes and patterns of hot-mix asphalt (HMA) pavement distress, as well as evaluation components plus preservation and rehabilitation techniques.

CEU/PDH 1.2/12.0

Public \$150/Private \$250 12 hrs

Integrating Pavement Preservation Practices and Pavement Management

Target Audience: Engineers, road agency supervisors, and others involved in pavement management, maintenance, and evaluation

Condensing the National Highway Institute (NHI) version, this course provides information needed for successful use of pavement management activities to support a pavement preservation program.

CEU/PDH 0.7/7

Public \$150/Private \$250 7 hrs

Long Term Pavement Performance (LTPP) – Pavement Distress Identification

Target Audience: Engineers, road agency supervisors, and those who evaluate pavement for maintenance and/or repair

Distress definitions, as used by LTPP for each pavement type, and best approaches for performing test section measurements are discussed. Classroom and field reviews are

incorporated. Two asphalt and two concrete locations are visited. Distresses observed in the field at site one are discussed and rated by participants. The second site is a test with no group discussion prior to participant ratings.

CEU/PDH 1.75/17.5

Public \$295/Private \$395 17.5 hrs

Superpave for Local Agencies

Target Audience: Engineers, supervisors, managers, roadway personnel and crews

The Florida Department of Transportation (FDOT) uses Superpave for all asphalt paving jobs. FDOT no longer verifies, processes, or supports any Marshall mix designs. Orient your workforce on Superpave. This workshop also covers FDOT Design Standards and is specifically designed for county and municipal roadway professionals.

CEU/PDH 0.6/6

Public \$125/Private \$210 6 hrs

Bicycle and Pedestrian

Pedestrian/Bicycle GIS Crash Mapping

Target Audience: Pedestrian/bicycle coordinators, agency personnel involved in crash mapping

Improved techniques and procedures to map pedestrian and bicycle crashes lead to better analyses, roadway improvements and reduced fatalities and injuries. Learn to use GIS and a Crash Map extension for a better technique to map and track pedestrian/bicycle crash locations.

Call Janet at 352.273.1676 for information.

Pedestrian/Bicycle Law Enforcement

Target Audience: Law enforcement, pedestrian/bicycle coordinators

This course educates law enforcement officers on Florida's pedestrian and bicycle statutes and trains them in the methods to educate motorists by using traffic enforcement operations.

Call Janet at 352.273.1676 for information.

Bridges

Bridge Maintenance

Target Audience: All personnel responsible for bridge maintenance and repair— crews to engineers

This National Highway Institute (NHI) course covers bridge maintenance management and safety, as well as maintenance and repair for the bridge deck, superstructure, and structure.

CEU/PDH 2.8/28

Public \$800/Private \$950 28 hrs

Chainsaw

Chainsaw Safety

Target Audience: Chainsaw operators — all skill levels

How safe are you when you operate a chainsaw? Why does your chainsaw pull to the right when cutting a tree? How do you cut this tree safely? Need answers? This class is for you! Topics include operator safety, chainsaw maintenance, and safe use.

Public \$75/Private \$150 Safety training duration varies with skill level

Chainsaw Safety/Hands-on

Target Audience: Chainsaw operators — all skill levels

Includes the Chainsaw Safety course listed previously. In addition, learn correct techniques for felling trees, use of protective gear, and safe use of wedges/angles. Participants will fell a tree using proper equipment and techniques. Topics include operator safety, chainsaw maintenance and safe use, and how to fell trees using OSHA-recommended methods.

Public \$195/Private \$295 Safety and hands-on training duration varies with skill level

Chainsaw Safety in Disaster Recovery

Target Audience: Chainsaw operators — all skill levels

This informative, hands-on safety oriented class is open to everyone. A limited number of hands-on slots are available. Learn the correct way to safely remove/clean up fallen trees and the proper use of all safety equipment. Bring your chainsaw and have it examined for any potential problems. Workshop emphasizes OSHA procedures and PPE (personal protection equipment).

Public \$195/Private \$295 Safety and hands-on training duration varies with skill level

Concrete and Cement

Cement Base Applications for Pavement

Target Audience: Engineers, public works officials, inspectors, managers, roadway designers

Learn how Portland cement improves subgrade soils, strengthens pavement bases, serves as an effective material for backfill, and can be used to recycle worn out, flexible pavements to create environmentally-friendly pavements. Information is presented on cement-modified soil, cement-treated base, soil-cement base, full-depth reclamation, and roller-compacted concrete pavements, applications, design, materials engineering, construction, testing, and performance of pavements.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Concrete Batch Plant Operator — CTQP

Target Audience: All concrete batch plant operators

Participants learn to prepare concrete design mixes in accordance with standard test methods. The course focuses on performing calculations required for batching concrete for an FDOT-approved concrete plant.

Course with written exam \$325

10 hrs

FDOT Concrete Field Inspector Specification — CTQP

Target Audience: Quality Control technicians who perform acceptance tests on the job site

Improve your understanding of FDOT Standard Specifications for Road and Bridge Construction (SSRBC) Sections 346, 347, 400, and other sections relevant to placement and field testing of concrete.

PDH 12

Course with written exam \$475

15 hrs

FDOT Concrete Laboratory Technician Specification — CTQP

Target Audience: Quality control technicians who perform laboratory strength tests

Covers FDOT SSRBC Sections 346 and 347, and other sections relevant to laboratory tests for concrete.

PDH 6

Course with written exam \$375

8 hrs

Design

Advanced Roadway Signs

Target Audience: Sign maintenance/installation personnel, supervisors, contractors, consultants, other individuals needing in-depth training on roadway sign installation, inspection, and maintenance

This course offers in-depth training to identify proper sign usage and installation procedures, assessing correct sign types, construction, and application. Learn about sign spreading, multi-sign location, and how to properly locate and orient signs. Sign inspection, assessing need, determining how and when to inspect, remove or replace signs are addressed. Tips on managing an inspection crew, and creating schedules and accurate records are covered. Participants receive a workbook, relevant Florida Design Standard Indexes, and Part 2 of the Manual on Uniform Traffic Control Devices (MUTCD).

Available late Spring 2009

Basic Roadway Markings

Target Audience: Employees, contractors, consultants, utility personnel, maintenance personnel, and other individuals new to installing, inspecting, or performing maintenance on roadway markings

Covers classification of markings on streets and highways, and installation, inspection and maintenance procedures for each type and impact of climate and traffic conditions. Participants receive a workbook, relevant Florida Design Standard Indexes, and Part 3 of the Manual on Uniform Traffic Control Devices (MUTCD).

Available Fall 2009

Basic Roadway Signs

Target Audience: Contractors, consultants, utility personnel, maintenance personnel, and others new to installing, inspecting, or performing maintenance on signs

Covers key manuals and terms, sign classification and retroreflectivity, basic sign installation, inspection, maintenance and repair. A session is devoted to recognizing and preventing sign vandalism. Participants receive a course workbook, relevant Florida Design Standard Indexes, and Part 2 of the Manual on Uniform Traffic Control Devices (MUTCD).

Available late Spring 2009

Basics of a Good Road

Target Audience: Inspectors, contractors, road crews, and supervisors wanting basic road construction information

Materials, design features, compaction, paving mixes, traffic considerations, soils, road geometry, and drainage of a good road are featured. Videos and sketches demonstrate proper and improper maintenance techniques. Ample time is allowed to address questions on specific maintenance issues.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Designing Facilities for Bicyclists and Pedestrians as Part of Multimodal Planning

Target Audience: Transportation planners, engineers, roadway designers, consultant firms, FDOT District/local project managers, bike/ped advisory board members, engineering and planning faculty and graduate students

This training provides current design standards (AASHTO) for bicycle/pedestrian facility planning, innovative safety and design research, FDOT updated multimodal planning LOS tools, and a practical approach to implement/fund bike/ped facilities. Includes Best Practices case studies from U.S. and Europe. Field experience on local facilities is incorporated as time/interest allow.

CEU/PDH 0.7/7.0

Public \$150/Private \$250

8 hrs

Florida Greenbook, The

Target Audience: Roadway designers, engineers, construction personnel, city and county officials responsible for local road design and construction

The Florida Greenbook (Florida Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways) provides uniform minimum standards and criteria for all city/county design/construction plans for road and bridge projects. Topics also include sidewalks, curbs and curb ramps, crosswalks (where feasible), bicycle facilities, underpasses, and overpasses used by the public for vehicular and pedestrian traffic.

Available late Spring 2009

GIS Crash Mapping

Target Audience: Personnel involved in crash mapping

Improved techniques and procedures to map crashes will lead to better analyses, roadway improvements and reduced fatalities and injuries. Learn to use GIS and a Crash Map extension for a better technique to map and track crash locations.

Call Janet at 352.273.1676 for information.

Highway Design for Older Drivers and Pedestrians

Target Audience: Highway designers, traffic engineers, highway safety specialists

Provides practical information linking older road user characteristics to highway design and operational/traffic engineering recommendations by addressing specific roadway features. Supplements existing standards and guidelines for highway geometry, operations, and traffic control devices.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Human Factors for Transportation Engineers

Target Audience: Roadway designers, traffic engineers, and safety personnel who plan and design roadways for vehicles and pedestrians

Includes interactive modules on information perception, decision making, driver responses, and human factors principles. The relationship between specific highway standards and human needs is emphasized. Human skills and capabilities are discussed and demonstrated and micro case studies emphasize skills gained.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Traffic Engineering Fundamentals

Target Audience: Non-traffic engineers or technicians, engineering and planning professionals who regularly interface with traffic engineering or are new to the discipline

Covers signal systems and operations, analysis of roadway capacity and level of service, intelligent transportation systems, traffic control devices, roundabouts and traffic incident management. Three options: full three days, days one and two, or only day three; visit t2.ce.ufl.edu for more information.

All three days:

CEU/PDH 2.1/21

Public \$545/Private \$625

21 hrs

Days one and two:

CEU/PDH 1.4/14

Public \$425/Private \$550

14 hrs

Day three:

CEU/PDH 0.7/7

Public \$250/Private \$350

7 hrs

Wildflowers and Noxious Weeds in Florida

Target Audience: Maintenance workers, supervisors, engineers, and employees in charge of vegetation design and care

Learn wildflower landscape design and maintenance for roadways, intersections, and bridges. The importance of maintaining designed areas using local wildflower species is emphasized along with noxious weed control methods.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Earthwork

Earthwork Construction Inspection Level 1 – CTQP

Target Audience: Technicians who test soil materials to verify quality of the earthwork

Learn to safely and effectively sample soil materials from the roadway, take earthwork density readings, and record those findings in a density log book. Topics include the nuclear gauge use and maintenance, determining moisture levels in the soil, and the FDOT Earthwork Records System. Nuclear Safety Certification is required for qualification.

PDH 8

Course with written and proficiency exams \$475

14 hrs

Earthwork Construction Inspection Level 2 – CTQP

Target Audience: Technicians who verify that earthwork test results comply with standards, specifications and contract documents

Improve your skills in applying standards and specifications associated with earthwork testing, proper recording, and tracking of test results in FDOT's Earthwork Records System.

PDH 8

Course with written exam \$475

10 hrs

Geotech

Drilled Shaft Inspection – CTQP

Target Audience: Technicians responsible for inspecting drilled shaft foundations

Recognize and become familiar with the drilled shaft construction process, equipment, nomenclature, and FDOT Standard Specifications for Road and Bridge Construction (SSRBC) Section 455.

PDH 16

Course with written exam \$700

24 hrs

Geotechnical Engineering for Non-Geotechnical Engineers – The Basics

Target Audience: Non-soils engineers, technicians and inspectors, project engineers and managers, architects, landscape architects, geologists, earth scientists, civil and other engineers, construction personnel, industry tech/sales representatives, public works professionals, engineers-in-training. No formal geotechnical education is needed.

Develop your understanding of the basics with this straightforward, practical, entry-level course which describes and analyzes each important element of soil engineering: soil classifications and behavior, field investigations and soils reports, water effects on soils and dewatering, earth pressures and stresses, soil strength and settlement, compaction of sands and clays, construction procedures and stability of cuts and fills, and geosynthetics and earthwork.

Public \$125/Private \$210

6 hrs

Pile Driving Inspection – CTQP

Target Audience: Technicians responsible for inspecting driven pile foundations and retaining wall installations

Become more familiar with FDOT SSRBC Section 455, practice recording and documenting activity related to the plan specs, and learn more about pile driving equipment, processes and terminology. This course also teaches you how to accurately and efficiently handle the FDOT pile driving software application. Learn how to set up a structure file, understand bent/pier models, enter pile driving data, and print reports.

PDH 16

Course with written and proficiency exams \$975

24 hrs

Heavy Equipment

Backhoe Safety/Hands-on

Target Audience: Backhoe operators — all skill levels

Provides equipment operators with classroom and hands-on experience. Acquaints operators with proper road profiles, drainage issues, maintenance methods, and new techniques and technologies. Covers safety, backhoe types, maintenance, speed, aggregate types, road profiles, ditching, draining, dust control, wetlands issues, etc. Hands-on: instructor provides field assistance on backhoe techniques and solving problems on your agency's local roadways.

Public \$250/Private \$350 Safety and hands-on training duration varies with skill level

Bucket Truck Safety/Hands-on

Target Audience: Operators, managers, administrators, operator supervisors — all skill levels

This workshop is held at your location using your equipment. Topics include personal safety, personal protection equipment, pre-use inspection, functional operation, and inspection of all components. Importance of routine inspection reports and unit maintenance, as mandated/required by OSHA, are covered. Information on mechanics, hydraulics, fluids, and the dielectric testing integrity of the mast and boom/bucket is presented. Participants perform hands-on, pre-use inspection, correct set up of a unit on available surface for maximum stability, and load capacities of the bucket on a 5 degree slope. A certificate of competency is awarded for those passing the test.

Public \$250/Private \$350 Safety and hands-on training duration varies with skill level

Forklift-Powered Industrial Truck — Safety/Hands-on

Target Audience: Warehouse, shop, and maintenance drivers — all skill levels

This safety workshop complies with all OSHA regulations and is held at your location using your equipment. Learn how a forklift works, safe operating rules/techniques/procedures, load handling, and inspection. Passing the performance and written exams earns a certificate of competency.

Public \$195/Private \$295 Safety and hands-on training duration varies with skill level

Front-end Loader Safety/Hands-on

Target Audience: Front-end loader operators — all skill levels

This safety workshop complies with all OSHA regulations and is held at your location using your equipment. Topics include how a front-end loader works, safe operating rules/techniques, load handling, inspection, and hands-on operating procedures. A certificate of competency will be issued after passing the written test.

Public \$325/Private \$425 Safety and hands-on training duration varies with skill level

Motor Grader Operator Safety/Hands-on

Target Audience: Motor grader operators, managers, operator supervisors — all skill levels

This course and manual acquaint operators with proper road profiles, drainage issues, maintenance methods, and new techniques and technologies. Topics include safety, grader types, grader maintenance, blade pitch, articulation, grader speed, aggregate types, road profiles, ditching, draining, washboarding, dust control, wetlands issues, and more. The instructor travels to your municipality and provides field assistance on grader techniques and solving problems on your local roads.

Public \$350/Private \$475 Safety and hands-on training duration varies with skill level

Tractor Mower Operator Safety

Target Audience: Tractor mower operators — all skill levels

An AEMF/FEMA - based best safety practices Industrial Mower Operator Safety Training Program. All makes and models of tractors and mowers. This course has both classroom and hands-on training. Lunch will be provided.

Public \$145/Private \$250 8 hrs

Maintenance of Traffic

Maintenance of Traffic — Basic

Target Audience: Individuals working in traffic control zones on state roadways with responsibility for flagging traffic

Includes review of Part 6E of the MUTCD, Florida Design Standard Index 600, and general information for traffic control through work zones. This training may be performed in-house by a qualified Intermediate MOT or Advanced MOT employee. Basic MOT training is required for every employee flagging traffic in traffic control zones. Requalification is required every four years.

Public \$90/Private \$120 4 hrs

Maintenance of Traffic — Intermediate

Target Audience: Persons with direct control of placement, maintenance and inspection of traffic control devices, training and placing flaggers, and drafting or generating electronic work zone control plans

Successful course completion provides Intermediate MOT qualification. Material includes in-depth analysis of Florida Design Standard Index 600 and the MUTCD Part 6. Requalification is required every four years.

CEU/PDH 1.5/15
Public \$170/Private \$210 16 hrs

Maintenance of Traffic – Intermediate Refresher

Target Audience: Refer to Maintenance of Traffic — Intermediate

Prerequisite: Valid Intermediate Maintenance of Traffic Qualification

Satisfactory completion of Intermediate Refresher training must occur on or before the participant's Intermediate MOT qualification expiration date to extend qualification for four years. This refresher course is an overview of the initial course with concentration on changes that have occurred to the Florida Design Standard Index 600 and Part 6 of the MUTCD in the past four years. Participants failing the exam must retake the full, 16-hour course to re-qualify.

CEU/PDH 0.7/7
8 hrs

Public \$120/Private \$160

Maintenance of Traffic – Advanced

Target Audience: All personnel with responsibility for or authority to decide on specific maintenance of traffic requirements to be implemented on state roadways, including the engineer responsible for the work zone traffic control plan development and the work zone traffic control supervisor

Prerequisite: One year experience in work zone traffic control or one year of responsibility for work zone traffic control plan development

Advanced MOT qualification is awarded to individuals who successfully complete this course. Successful participants will be able to analyze, design, implement and operate traffic control plans in a clear and concise manner. Requalification is required every four years.

CEU/PDH 1.675/16.75
20 hrs

Public \$295/Private \$395

Maintenance of Traffic – Advanced Refresher

Target Audience: Refer to Maintenance of Traffic — Advanced

Prerequisite: Valid Advanced Maintenance of Traffic Qualification

Overview of initial course with concentration on changes to the Design Standards, Part 6 of the MUTCD, PPM, CPAM, and Florida's Standard Specifications for Road and Bridge Construction. Satisfactory completion of the Advanced Refresher training must occur on or before the participant's Advanced MOT qualification expiration date to extend qualification for four years. Participants failing the exam must retake the full, 20-hour course to re-qualify.

CEU/PDH 0.7/7
8 hrs

Public \$150/Private \$200



Making Work Zones Work Better

Target Audience: Traffic engineers, construction engineers, project engineers, contractors, utility personnel, law enforcement, planners, public officials, and others involved in project development and work zone operations and safety

Traffic mobility and safety in and around work zones continues to be a problem in Florida. Over the past 20 years, severe congestion has doubled and extreme congestion has tripled. More than 24% of all non-recurring congestion is due to work zones, and is projected to increase by 50% over the next 10 years. Course topics will include congestion through reduced-capacity work zones, noise requirements for nighttime construction, adequate public relations campaigns, and knowledge of mitigation techniques and strategies.

CEU/PDH 0.8/8

Public \$150/Private \$250

8 hrs

Mobile Equipment and Internal Work Zone Safety

Target Audience: Public works employees: water/waste water utility, parks, irrigation, those who operate/work near mobile equipment and in/outdoor municipal work zones

Topics covered include mobile equipment hazards, accidents, work zone perimeters/barriers; inclines, surface conditions, proximity to excavations/general stability; falling object protective structures (FOPS), rollover protective structures (ROPS), vehicle restraint devices and rider-passenger rules; pedestrian worker safety rules; suspended loads/rigging, "trailer-ing", equipment inspection/pre-job checklists, and unattended equipment and nighttime security.

Public \$75/Private \$100

4 hrs

QuickZone

Target Audience: Engineers, planners, designers, contractors, inspectors

QuickZone traffic impact software estimates work zone delays, performs tradeoff analyses between costs of construction and delays costs, compares night and day work, and diverts traffic to different roads at various stages of construction. These effects can be estimated for periods as short as one hour or for the entire project.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Work Zone Training for Law Enforcement

Target Audience: Law enforcement officers

This course provides safe and effective practices, roles and procedures related to the use of law enforcement officers in work zones and the basic components, standards and guidelines related to temporary traffic control in work zones.

Public \$100/Private \$150

4 hrs

Pilot Escort

Pilot/Escort Flagging

Target Audience: Personnel responsible for assisting oversize load drivers and warning the motoring public of oversize loads

This course reviews official rules for Florida escorts found in the Florida Administrative Code Chapter 14-26.012, as well as basic maneuvering with oversize loads, and flagging procedures from the MUTCD Part 6E. This course represents one-third of Florida's escort qualification requirements: (1) must be at least 18 years of age with a valid driver's license; (2) successfully complete a minimum 8-hour National Safety Council Defensive Driving course **or** possess a valid CDL (Class A, B, or C); and (3) successfully complete Florida Pilot/Escort Flagging training.

Requalification is required every 4 years.

Public \$120/Private \$120

8 hrs

Pilot/Escort Flagging Refresher

Target Audience: Refer to Pilot/Escort Flagging

Prerequisite: Valid Florida 8-hour Pilot/Escort Flagging Certificate

This course reviews changes to the Florida Administrative Code. A four-year certificate is presented to those who successfully complete the exam. The course is also available online through the Florida T² Center website (see Pilot/Escort Flagging Refresher Online).

Public \$60/Private \$60

4 hrs

Pilot/Escort Flagging Refresher Online

Target Audience: Refer to Pilot/Escort Flagging

Prerequisite: Valid Florida 8-hour Pilot/Escort Flagging Certificate

This Computer Based Training (CBT) refresher reviews changes to the Florida Administrative Code. A four-year qualification is presented to those who successfully complete the exam. Go to t2.ce.ufl.edu/tsclasses.asp?workshop=PERCBT to enroll and take the course online. For assistance, contact Florida T² Center Pilot/Escort online registration by phone: 352.273.1675.

Public \$60/Private \$60

4 hrs

Project Management

Construction Estimating

Target Audience: Employees responsible for making construction quantities estimates

The workshop is for agency personnel needing practice and experience making computations for estimating and measuring roadway maintenance quantities and amounts. Participants must supply their own calculator (TI36X calculator or equivalent) and have the skill to add, subtract, multiply and divide on it.

Public \$120/Private \$210

4 hrs

Economic Evaluation of Public Projects

Target Audience: Engineers, managers, and technicians who assist with/analyze the financial feasibility of construction projects using public monies

This workshop provides a good, basic foundation in Engineering Economics principles and how to apply them to make realistic, economic decisions between competing alternative solutions. The analytical framework for decision-making from an economic viewpoint includes theory, knowledge, and tools used to analyze commonly-encountered engineering problems.

CEU/PDH 0.7/7.0

Public \$200/Private \$300

8 hrs

Florida Department of Transportation (FDOT) Specifications

Target Audience: Roadway designers, specification writers, engineers, contractors

FDOT uses Contractor Quality Control (CQC) specifications on all projects for asphalt, concrete and earthwork, fundamentally changing acceptance and testing on FDOT projects which may affect your city or county. Learn a simplified process and easily customized tools that follow FDOT's Standard Specifications for Road and Bridge Construction. Become familiar with the workbook and process of selecting files to include in project packages. Learn the macro to pull it all together.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Final Estimates Level 1 – CTQP

Target Audience: All employees responsible for providing proper measurements, computations, documentation, and submission of final estimates

The course prepares trainees for the Final Estimates Level 1 written exam which is given at the end of class. Ample time is devoted to problem solving and use of the formulas needed to complete the Final Estimates Level 1 calculations.

Call Alyce at 352.846.3593 EXT. 31669 for information.

8 hrs

Final Estimates Level 2 – CTQP

Target Audience: All employees responsible for producing monthly, progress and final payments and/or compiling final estimates packages

Covers contract language, asphalt records, final plans, certifications, earthwork requirements, and fuel and bituminous adjustments. Standard policies, procedures, and common practices necessary to produce optimal, accurate and timely payments are also presented.

Course with written exam \$575

15 hrs

Introduction to Highway Construction Inspection

Target Audience: Inspectors, contractors, technicians, and construction personnel

Provides participants with a better understanding of construction processes and a useful reference for highway construction inspection. Topics include chain of command, the preconstruction conference, working shop drawings, construction records, control of materials, utility relocation, schedule and contract time, progress estimates, safety, contract modifications, contractor claims, acceptance of work, and final estimates.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Project Manager/Inspector Fundamentals

Target Audience: Roadway managers and roadway inspectors

This introduction/review course gives managers and inspectors basic tools required for job planning. Reviewing and performing hands-on training will occur for plans reading/review, soil borings/geometrics, field layout/survey, utilities, bridges, drainage, soils/geotechnical, work zone safety, construction safety, form teams/plans review, and onsite/field review.

Public \$295/Private \$395

14 hrs

Quality Control Manager – CTQP

Target Audience: Contractor, FDOT and CEI Quality Control personnel

Learn to develop QC plans and how to monitor adherence to those plans during the construction process.

CEU/PDH 1.2/12

Course with written exam \$500

15 hrs

Safety

Common Sense Solutions for Intersection Safety Problems

Target Audience: Elected officials, law enforcement officers, municipal workers, safety advocacy groups, roadway designers, public works employees, directors, and engineers

Provides basics of intersection safety problems, issues and liability, and the officials' role in making local intersections safer while protecting their governments from litigation. Provides practical information that does not require engineering expertise for common safety problems, as well as background information on problems that do require engineering expertise.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Community Approach to Safe Routes to School Programs, A

Target Audience: Community safety officials, CTST members, bike/ped coordinators, Safe Kids Coalition members, county health staff, school administrators, interested PTA members

This is a national Safe Routes to School (SRTS) overview covering the 5 “Es” (Engineering, Education, Encouragement, Enforcement, and Evaluation) and practical ways to create a community-based SRTS program. Addresses state funding applications and applying for infrastructure/non-infrastructure funds. Includes field exercise “walk audit” of a school site. Shares local success stories with “walking school buses” examples, enforcement strategies, education programs and encouragement ideas.

CEU/PDH 0.6/6.0

Call David 352.273.1685 for information.

7 hrs

Community Bicycle and Pedestrian Safety Programs

Target Audience: Local safety officials, school resource officers

This course covers “Earn a bike” community programs, design and implementation of bicycle safety rodeos, strategies for bicycle enforcement, walk audits and bicycle-friendly community assessments.

CEU/PDH 0.6-0.8/6.0-8.0/7.0 (varies with content and audience)

Public \$125/Private \$210

16 hrs

Confined Space Entry Certification

Target Audience: Municipal water, waste water and storm water utility employees

Identifies/addresses common municipal permit-required, confined space situations rarely covered by other programs. Provides a comprehensive Confined Space Entry policy and implementation methods. Introduces other hazards specific to water/waste water/storm water facilities. Presents new safety products, accident prevention, site analysis measures, protocol development for each permit-required confined space location, and the most advanced Confined Space Entry Permit form. Includes field exercise.

Public \$125/Private \$210

8 hrs

Defensive Driving Skills and Crash Prevention for Public Agencies

Target Audience: Operators of heavy equipment — all skill levels

Develops knowledge and driving skills for dual and single axle dump trucks, 3/4 ton pickups, emergency vehicles, and more. Increase your confidence level in operating vehicles with a GVWR over 26,000 LBS and towing trailers/vehicles rated at 10,000 pounds GVWR or less.

Public \$175/Private \$295 Safety and hands-on training duration varies with skill level

Inspecting Municipal Properties

Target Audience: Employees responsible for safety inspection of public properties

This course covers the inspection of indoor and outdoor work areas, public properties and access areas and emphasizes basic OSHA regulatory compliance, standard work place safety issues, desirable/undesirable working conditions, personal protective equipment (PPE) requirements, signage and markings. Agency inspection check list forms are shared. Proactive maintenance is recommended with limited resources.

Public \$100/Private \$150

4 hrs

League Cycling Instructor (LCI) Training (League of American Cyclists)

Target Audience: Community safety officials, law enforcement officers, school resource officers, physical education/health teachers, bike/ped coordinators, bike/ped advisory board members and community volunteers

Offers national certification for teachers, law enforcement, community officials in biking skills / education following the national curriculum. This is a rigorous on-bike course. You must provide your own bicycle (road) and helmet.

Prerequisite: 9 hour “Road 1” course (available on request)

CEU/PDH 1.6/16.0

Call David at 352.273.1685 for information.

16 hrs

Lockout/Tagout: Isolation and Control of Hazardous Energy at Municipal Work Places

Target Audience: Public works/utility employees, water/waste water distribution/plant operators, anyone exposed to hazardous energy

This course combines a total program approach to lockout/tagout principles with worksite safety engineering, safe work practices, protective devices/products, special clothing and proper use of personal protective equipment. Hazardous energy sources, lockout/tagout concepts applicable to public work spaces, recent public sector lockout/tagout hazards and accidents, and available isolation and/or lockout devices are presented.

Public \$75/Private \$100

4 hrs

Low-Cost Safety Improvements for Rural Roads

Target Audience: Elected officials, law enforcement officers, municipal workers, safety advocacy groups, roadway designers, street superintendents, public works employees, directors, and engineers

A basic review of low-cost safety solutions for roadways, emphasizing rural roads. Information for common safety problems is provided in a practical format that does not require engineering expertise.

Public \$125/Private \$210

6 hrs

Nuclear Density Gauge Safety – CTT

This course covers the proper use and safe transport requirements of portable nuclear density gauges. Topics include radioactivity, radiological health and safety, regulations, monitoring, and transport. Passing the exam fulfills requirements for technicians using nuclear density gauges, required for Earthwork Construction Inspection Level 1 CTQP qualification. The class is highly recommended for Paving Level 1 technicians as they use or work near nuclear density gauges.

Call Alyce at 352.846.3593 EXT. 31669 for information.

8 hrs

OSHA Competent Person

Target Audience: Engineers, contractors, supervisors, inspectors, construction and road crews

Covers the OSHA Trenching and Excavation Competent Person requirements. Learn new terms and how to apply the standards. Other topics include soil classifications, tests, and hazard recognition.

Public \$125/Private \$210

5 hrs

Power Line Safety for the Municipal Worker

Target Audience: Public works/utility crews, anyone working around power utilities, safety officers, safety loss control officers

This program educates workers on above- and below-ground power line configurations. Activities that place them at risk of contact with high voltage lines are described, as well as accident prevention methods and safe work practices when operating near power utilities. Power line accident scenarios, issues and incident prevention, and ground penetrating radar are discussed. Includes a field exercise and demonstration.

Public \$75/Private \$100

4 hrs

Road Safety Assessments for Community Traffic Safety Teams (CTSTs)

Target Audience: CTST members

Road Safety Assessments (RSAs) for CTSTs, an abbreviated version of the full course, is available only to CTST members. The RSA is an effective tool to help reduce injuries and fatalities on your road network. CTST members are provided with a step-by-step procedure for performing RSAs to recognize basic RSA concepts, evaluate risk and safety, and become familiar with common issues, which gives the team the ability to conduct audits. Simple, low cost safety improvements can be implemented to reduce fatalities and severe crashes. An optional, onsite RSA will be conducted at a predetermined, local site.

CEU/PDH 0.4/4

Call Jaime at 352.273.1697 for information.

8 hrs

Road Safety Assessments for Local Governments

Target Audience: Traffic engineers and other local government decision makers

Road Safety Assessments (RSAs) for Local Governments introduces RSAs as an effective tool to reduce injuries and fatalities on your road network. Learn basic RSA concepts, risk and safety, and common issues. Gain experience in conducting a RSA. Low cost safety improvements can be implemented quickly to reduce fatalities and severe crashes. An onsite RSA is conducted on day 2 at a predetermined, local site.

CEU/PDH 1.2/12

Call Jaime at 352.273.1697 for information.

16 hrs

Roadside Maintenance Safety

Target Audience: Mower tractor operators, vegetation control workers

This course teaches workers OSHA standards, the fundamentals of safely using mowers, traffic control procedures, PPE, sprayers, accident reviews and prevention, and vegetation control. No hands-on equipment training occurs during this course.

Public \$120/Private \$210

5 hrs

Safe Mobility for Life Program: Preparing Our State for the Future

Target Audience: Engineers, planners, and associated professionals

By 2020, one in four Florida residents will be over 65, and half of those will be 75 or older. Developed by FDOT, this Florida-specific training, based on FHWA's Highway Design Handbook for Older Drivers and Pedestrians, raises awareness of roadway needs related to mature drivers. It presents alternative solutions to planning, design, and operation of roadways and associated facilities.

CEU/PDH 0.7/7.0

Public Free/Private Free

7 hrs

Stormwater

Stormwater, Erosion, and Sedimentation Certification Program (NPDES)

Target Audience: Person responsible for planning and/or inspecting stormwater runoff and containment sites

This course satisfies the EPA regulations for qualified/certified inspectors for the Florida Stormwater, Erosion and Sedimentation Control Program and covers Best Management Practices as set forth by the State of Florida. To become a Certified Stormwater Management Inspector, participants must successfully pass a state-approved test upon completion of the course.

CEU/PDH 1.3/13

Public \$195/Private \$295

13 hrs

Surveying

Surveying Methods for Local Agencies

Target Audience: Experienced individuals are welcome; however, the focus is for those with limited/no surveying experience including engineers, supervisors, managers, state and local officials, road agency personnel, and others interested in learning simple surveying methods

Basic surveying techniques using the hand level, rule (tape), and level rod are taught. Participants learn to record field measurement notes and use the notes to make simple calculations.

CEU/PDH 0.7/7

Public \$125/Private \$210

7 hrs

Workforce Development and Management

7 Habits for Associates

Target Audience: Supervisors, managers, upward bound employees, office personnel, engineers

Based on the best-selling book by Dr. Steven R. Covey, this class focuses on principle-centered concepts proven to improve effectiveness at work and home.

Public \$350/Private \$425

8 hrs

Between You and Me: Managing Conflict at Work

Target Audience: Your entire team

In today's workforce, some are reluctant to get involved in a conflict situation. Who doesn't feel uncomfortable at the thought of an unpleasant and possibly emotional confrontation? Unfortunately, conflicts are rarely self-healing conditions. Learn how to take responsibility for resolving individual conflicts by following simple, effective steps.

Public \$125/Private \$210

3 hrs

Coaching for Success

Target Audience: Supervisors and other leaders

Learn basic leadership skills to encourage/guide employees toward accomplishing goals in the work environment. Coaching is a dynamic, face-to-face leadership style. This intensive session provides practical tips on how to be a coach and therefore become a better manager. Lectures, group discussion, and case study reviews cover techniques that can help you become a more effective leader.

Public \$125/Private \$210

3 hrs

Communicate Assertively

Target Audience: Supervisors, managers, office personnel, engineers

Assertiveness is an acquired skill, not a personality trait that some people have and others do not. When we communicate assertively, we express our feelings, thoughts, and wishes, standing up for our legitimate rights without violating the rights of others. Learn communication skills essential in many day-to-day situations.

Public \$125/Private \$210

3 hrs

Communication Confidence

Target Audience: Supervisors, managers, office personnel, engineers

Most of us think we're good communicators. Listening and talking are things we engage in all the time, so we assume we do it well. Unfortunately, that is often not the case. Learn skills and tools to improve the way your team communicates.

Public \$125/Private \$210

3 hrs

Creating Possibilities

Target Audience: Supervisors, managers, office personnel, engineers

Features the work of Ben Zander, world-famous conductor of the Boston Philharmonic Orchestra. A fresh approach for improving your leadership is offered by encouraging you to become a possibility; a vision. The program expresses the importance of relating to people on your team as co-visionaries and co-leaders in the part they have to play.

Public \$125/Private \$210

3 hrs

Discover the Leader in You

Target Audience: Supervisors, managers, office personnel, engineers

Packed with practical exercises, tools, checklists, and action plans, this course will help you identify specific leadership roles that are natural for you, most critical to your organization, and most difficult for you. Learn practical tools for developing your skills. Good managing and effective leadership are not about memorizing techniques; they are about the kind of capability that begins to feel like a natural part of your being.

Public \$125/Private \$210 3 hrs

Empowerment: Unleash Potential

Target Audience: Supervisors, managers, office personnel, engineers

Want to maximize human potential? Create a culture that fosters independent initiative, creativity, and resourcefulness through proactive leadership. Identify proactive versus reactive behavior, increase your awareness of untapped potential, and develop an action plan to maximize potential in your work group.

Public \$125/Private \$210 3 hrs

From Manager to Motivator

Target Audience: Supervisors, managers, office personnel, engineers

Inspiring employee motivation requires much more than the old-fashioned carrot-and-stick approach. Today's managers must understand reasons why employees work and rewards they hope to receive. Learn the many factors affecting employee motivation. If you lead others, this workshop is for you.

Public \$125/Private \$210 3 hrs

Leading the Challenge of Change

Target Audience: Supervisors, managers, office personnel, engineers

In this world of high velocity change, we face the challenge of leading others through change every day. Why is this a challenge? When people perceive an established belief, value, or behavior is threatened, they experience fear — which then motivates them to protect themselves and resist the change! Explore the dynamics of change, the role of values and behavior in the change process, how to overcome resistance to change, and how to make change irresistible.

Public \$125/Private \$210 3 hrs

Making Meetings Work

Target Audience: Supervisors, staff, engineers

How many meetings have you attended or conducted that seemed like wasting time? Well, no more! Attend this workshop and learn how to conduct more effective meetings. You'll even learn why meetings don't work and what you can do to overcome typical meeting blunders!

Public \$125/Private \$210 3 hrs

Now Hear This

Target Audience: Supervisors, managers, office personnel, engineers

Forty percent of your average workday is spent listening to others. That's close to half a day! Are you an effective listener? Assess your listening skills. Could you improve?

Public \$125/Private \$210 3 hrs

Power of Feedback, The

Target Audience: Your entire workforce

Whenever we respond to another person, we are giving feedback. Effective feedback clearly communicates what's expected. It avoids attacks, judgments, and name-calling, and uses reinforcement to point out positive behavior that can be repeated or redirected when an employee is not contributing toward the organization's goals.

Public \$125/Private \$210 3 hrs

Powerful Public Speaking

Target Audience: Upward bound employees, engineers, supervisors, managers

Have you ever been in an interview, a meeting, or presentation and wished you were better prepared? Has stage fright impacted your effectiveness? Learn how to reduce stage fright and deliver your message in a professional manner. You will apply public speaking basics by focusing on situation, purpose, audience, and methods.

Public \$125/Private \$210 3 hrs

Quality Customer Service

Target Audience: Your entire workforce

We all have customers. How effective are you when dealing with them? When was the last time you really assessed your customer interaction? Could you improve? Would it help to review and get re-energized? This is not your ordinary customer service workshop.

Public \$125/Private \$210 3 hrs

Relationship Strategies

Target Audience: Upward bound staff, supervisors, engineers

This demanding workshop offers guidelines for understanding and adjusting to differences in people through observation of their behavior. Tools presented enable you to see yourself and your world through someone else's eyes which increases communication effectiveness!

Public \$125/Private \$210 3 hrs

Successful Supervision in Public Works

Target Audience: Public works directors, engineers, supervisors, and superintendents

Improve the quality of supervision in your public works department. This class covers tasks related to human resources management, a responsibility for all public works supervisors; how the certification interview can be used to select supervisors with competencies in human resource management; evaluation of supervisory performance related to the management of human resources; and a training program to improve supervisory performance related to personnel management.

CEU/PDH 0.6/6

Public \$125/Private \$210

6 hrs

Surviving the Challenge of the Problem Employee

Target Audience: Supervisors, managers, engineers, office personnel

“Bill’s work is not up to speed, but I’m afraid he’s going to get angry if I tell him.” “Mary does good work . . . when she actually comes to work.” “The problem with Joe is his attitude. I just want to fire him!” Supervisors learn how to analyze and control problem employees and how to get the workplace back on track to productivity.

Public \$125/Private \$210

3 hrs

Teamwork: Together Everyone Wins

Target Audience: Team members, upward bound employees, engineers, supervisors, managers, office personnel

Many organizations today use teams to identify and solve problems. Groups can transform themselves by learning the essential elements of team development.

Public \$125/Private \$210

3 hrs

What To Do First When Everything is Important

Target Audience: Supervisors, managers, office personnel, engineers

“It takes too much time to plan, besides, I’ve been successful so far without planning.” “Everything I have to do is important.” In today’s work environment, supervisors often are bombarded with simply too much to do. While it is true that we don’t have enough time to do it all, it is equally true that we have enough time. The key is knowing what to do first. Learn how to control work environments and how to manage workloads.

Public \$125/Private \$210

3 hrs



Mobile Video Training

Target Audience: Work crews, field and entry level employees, and supervisors

This efficient training brings video-based instruction and job-related skills information to your office, maintenance yard, or training facility. All training materials reflect Florida's regulations and guidelines. Sessions are scheduled on a first-come, first-served basis with a small registration fee that covers all employees. Meeting space and breaks are provided by your agency.

Schedule as much training in one day as possible (7 hours) and have the instructor travel down and back without an overnight stay. Sharing costs with another agency can save money and train the most employees at once. Average cost per training hour decreases as the total training hours offered increases. Custom tailored training is available.

Visit t2.ce.ufl.edu and complete the request form, then submit as directed. Limited scholarships are available. For special training or questions, contact mvt@ce.ufl.edu or 352.273.1697.

Mobile Video Training Program Modules

Module 1: Work Zone Safety

- 1A. Rural Road Operations (4 hrs)
- 1B. Urban Streets (4 hrs)
- 1C. Combination of Rural Roads and Urban Streets (4 hrs)
- 1D. Detours (2 hrs)
- 1E. Flagging (2½ hrs)
- 1F. Intersection Work (2 hrs)
- 1G. Low Speed Streets (3 hrs)
- 1H. Moving/Mobile Operations (2 hrs)
- 1I. Pedestrians (2 hrs)
- 1J. Surveyors/Locators (2 hrs)
- 1K. Utility Work (2½ hrs)
- 1L. Nighttime Operations (2½ hrs)

Module 2: Asphalt Pavement

- 2A. Asphalt Pavement Repair (2 hrs)
- 2B. Asphalt Paving (1½ hrs)
- 2C. Asphalt Paving Inspection (1-2 hrs)
- 2D. Asphalt Surface Treatments (2 hrs)

Module 3: Equipment / Tool Operation and Safety

- 3A. Asphalt Paving Compaction Equipment Operation (2 hrs)
- 3B. Backhoe/Loader Operation (1½ hrs)
- 3C. Chainsaw Safety (1 hr)
- 3D. Commercial Driver's License (4 hrs)
- 3E. Crane Safety (1 hr)
- 3F. Crawler Excavator (Crawler Backhoe) Safety (1 hr)
- 3G. Dump Truck Operation and Preventive Maintenance (1 hr)
- 3H. Forklift Operation and Safety (1 hr)
- 3I. Front End Loader (2 hrs)
- 3J. Motor Grader (1½-2 hrs)
- 3K. Skid Steer Loader (Bobcat) (2 hrs)

Module 4: Portland Cement Concrete

- 4A. Reinforced Portland Cement Concrete Inspection (4 hrs)
- 4B. Portland Cement Concrete Flatwork (2½ hrs)

Module 5: Roadside Maintenance Operations

- 5A. Mowing Safety (1 hr)
- 5B. Roadside Vegetation Control (4 hrs)
- 5C. Shoulder and Roadside Ditch Maintenance (2 hrs)
- 5D. Guardrail Installation (2½ hrs)

Module 6: Drainage Construction / Erosion Control

- 6A. Pipe Placement Grader (1½ hrs)
- 6B. Underground Safety (2 hrs)

Module 7: Soils

- 7A. Soil Cement Construction In Florida (1½ hrs)
- 7B. Soil Stabilization In Clay Soils (1½ hrs)
- 7C. Geotextiles and Geogrids (2 hrs)
- 7D. Graded Road Maintenance (1-2 hrs)
- 7E. Erosion Control (2 hrs)

Module 8: Legal Concerns

- 8A. Legal Testimony — Trial and Deposition (2 hrs)
- 8B. Tort Liability — Field Responsibility (1 hr)
- 8C. Tort Liability — Management Responsibility (1-2 hrs)

Module 9: Highway Safety: Design, Construction and Maintenance

- 9A. Highway Safety Features (4 hrs)

Module 10: Traffic Operations

- 10A. Highway Signing and Pavement Marking Maintenance (4 hrs)