The Florida Transportation Technology Transfer (T2) Center is your partner in satisfying the technical and managerial training needs of your agency through a variety of delivery methods. This comprehensive portfolio is your guide to the extensive training opportunities we offer, all of which can be tailored to meet your specific needs. Most courses offer Professional Development Hours (PDHs) and/or Continuing Education Units (CEUs) for individuals who need to maintain qualifications or licenses.

We conduct required and elective training to improve and strengthen the skills of your entire organization. We schedule courses at convenient locations throughout the state. We also have broadcast, online, and recorded class options to accommodate a wider audience. Registration fees included in this portfolio are for live, instructor-led courses and online courses, as noted.

Most of our training can also be arranged exclusively for your organization at your location, saving you time and money. Our Video Training (VT) sessions are available for you to view at your convenience (see page 16). We can work with your schedule to ensure that you get the training you need, where you need it, when you need it! Check our website, http://www.techtransfer.ce.ufl.edu for current training schedules and locations, or call us today at 352.273.1685 to discuss the training options available for your agency.

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Sponsors and Partnerships

Our training is supported in part through grants and partnerships with various offices of the Florida Department of Transportation (FDOT) and the Federal Highway Administration (FHWA). Courses are offered as part of the Local Technical Assistance Program (LTAP). Many courses can lead to qualifications through FDOT’s Construction Training Qualification Program (CTQP), the Maintenance of Traffic (MOT) training program, and the Pilot/Escort training program.

Training Notifications

Sign up for emails with current course announcements. Contact David Page at dkpage@ufl.edu to add your name.

Equipment Loan Program

The T2 Center has equipment available to assist local transportation agencies. To request these materials, please complete the T2 Center Equipment Loan Request Form found on our website resources. Equipment available includes:
- Reflectometer RoadVista model 922
- Rolling Straight Edge
- Safety Edge

Free Training from NHI and TCCC!

Many free, Web-based courses are available from the National Highway Institute (NHI) in partnership with the Transportation Curriculum Coordination Council (TCCC). NHI frequently develops new courses and updates existing courses to serve the transportation industry. Please visit nhi.fhwa.dot.gov to view the entire list of courses.

Safety Resource Centers

The T2 Center is proud to host the Florida Pedestrian and Bicycling Safety Resource Center and the Florida Occupant Protection Resource Center. Their efforts aim to save lives by distributing important safety items and information. See page 17 to read about the resources they provide.

New Courses for 2017

We are excited to announce eight new courses in this year’s training portfolio! This is only a sample of our courses. To see all of our course offerings visit http://www.techtransfer.ce.ufl.edu/assnfe/searchcourses.asp. Call David Page (352.273.1685) to discuss these and other training opportunities for your agency.

Basic Math Concepts

Target Audience: Anyone in the transportation field that needs a refresher in basic math skills
This online course is designed to familiarize students with basic math skills that can be applied in the field. The course includes important vocabulary and concepts, applications of mathematical processes (rounding and degrees of accuracy), basic calculator instruction, and practical scenarios to reinforce the concepts.

Free 2 hrs

Basic Technical Mathematics

Target Audience: Anyone in the transportation field that needs a refresher in basic math skills
This online course is a continuation of Basic Pre-Mathematics. Subjects of this course include: basic calculating; rounding and degrees of accuracy; fractions, averages, percents, rations, and proportions; units of measurement; and calculating areas. Not only will the course review each subject, but it will provide the student with an understanding of how to apply the calculations in daily field activities.

Free 13 hrs

GIS — Data Sources and Considerations Webinar

Target Audience: Personnel interested in the basics of GIS or are new to the discipline
Upon completion of the webinar, attendees will have locations for federal, state, and local data in Florida to draw upon for the creation of a basic map or report in GIS. Additional data sites and resources will be covered but not presented in a live demo format due to time constraints. We will also cover data considerations for currency and accuracy, as well as any cyber security issues that can arise when accessing data or software online.

$50 Public • $75 Private 4 hrs

GIS — Data Import, Analysis, and Trends

Target Audience: Personnel interested in the basics of GIS or are new to the discipline
A continuation of the GIS series from GIS — Data Sources and Considerations. Attendees will learn to view and query GIS data from free ArcGIS Explorer viewer or proprietary ArcGIS Desktop as well as import and display KML data in Google Earth. Advancements in ArcGIS Online cloud data storage and Software as a Service (SaaS) in the GIS industry will be covered.

$50 Public • $75 Private 4 hrs
Fire Rescue — Ambulance Responders
MOT Highway Safety
Target Audience: Emergency Personnel, Drivers, First Responders, anyone working on/in an incident on Florida roadways including turnpikes and interstate highways
This course covers the MUTCD and FDOT Design Standards as they pertain to setting up a safety zone around the first responder during incidents. It will cover some highway safety as well as work zone safety to give the responders a better knowledge of safe zones and traffic management.
There will be a hands-on portion in this course to set up options for safety around the vehicle and workers.

$125 Public • $210 Private 6 hrs

Portable Changeable Message Signs (PCMS) — Programming and Maintenance
Target Audience: Recommended for roadway crews, equipment crew members, division supervisors, agency safety officers, department safety coordinators, general safety trainers and/or fleet team members
PCMS are made for a variety of scenarios. In order to accommodate numerous work zone applications, PCMS come in a variety of sizes, with various power sources, mounting options, and with methods for controlling or programming. We concentrate on the use, programming, and maintenance of the message board. Also great for emergency backup personnel who may be called on to use the equipment in special circumstances such as after a hurricane or for any other reason where no other operators are available.

$150 Public • $210 Private 6 hrs

Welding — Introduction to Concepts, Techniques, and Safety
Target Audience: An introduction to welding basics and safety. It is recommended for all levels of expertise, from those new to welding to a refresher for experienced welders
This basic introduction to welding course is a great way to learn the concepts and techniques that are welding requirements. In this class, students will have an opportunity to weld and show proper techniques as well as OSHA Safety Standards. This 16-hour course provides the trainees with information necessary to understand the hazards of welding and develop the proper attitude to safety. All personal protective equipment and shop safety operations will be discussed. After passing the written test and demonstrating proper techniques, attendees will be given an attendance certificate for their files. The proper techniques for a good stick weld will be taught and tested during this class.

$800 Public • $900 Private 16 hrs

Dozer/Caterpillar — Safety/Hands-on
Target Audience: Dozer operators, managers, operator supervisors • all skill levels
More than any other type of heavy equipment, Dozers are in the thick of things, encountering many types of materials and ground conditions as they handle tasks throughout the roadway/yard/mine, such as pushing truckloads of material over dumps, building lifts and cleaning up shovel pits. It takes a highly skilled operator to do these jobs safely and efficiently.
This is a safety workshop at your location, using your equipment. This workshop complies with all OSHA regulations. We will cover how a dozer works, safe operating rules/techniques, load handling, inspection, and hands-on operating procedures. A certificate of competency is included in this workshop as well as all handouts and materials.
This workshop includes safety/inspection techniques and actual hands-on training for your attendees. Our instructor travels to your location and provides field assistance on dozer techniques and solving problems.

$800 Public • $950 Private Length varies

ADA
ADA/Accessibility Requirements for Highway Design and Pedestrians
Target Audience: Designers, ADA coordinators, safety inspectors, project managers, technicians, and consultants
Learn the Americans with Disabilities Act (ADA) requirements for public agencies regarding design, construction, operation, and maintenance of pedestrian facilities within public right-of-way. The course covers extensive technical and regulatory ground, ranging from ADA/accessibility requirements, design, standards, and good practices, to ADA self-evaluations and transition plans.

$100 Public • $140 Private 7 hrs • CEU/PDH 0.7/7

ADA — Facilities Access
Target Audience: Facility designers, ADA coordinators, safety inspectors, project managers, technicians, and consultants
This course is an overview of the Americans with Disabilities Act (ADA) and 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.

$40 Public • $60 Private 4 hrs • CEU/PDH 0.4/4
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 questions about maintenance issues.

$175 Public • $250 Private 6 hrs • CEU/PHD 0.6/6

Asphalt Inspection
Target Audience: Inspectors, contractors, technicians, and personnel with construction inspection job duties
This course includes basic concepts of asphalt materials, inspection techniques, keys to obtaining high quality work on new construction and resurfacing projects, common problem areas, and how to properly correct them, but it does not include any qualification associated with the Construction Training Qualification Program (CTQP).

$125 Public • $210 Private 6 hrs • CEU/PHD 0.6/6

Asphalt Mix Design CTQP
Target Audience: Technicians responsible for designing hot-mix asphalt
This course provides engineers, technicians, and inspectors with an understanding of how asphalt mixes are developed in accordance with Superpave specifications.

Course with written exam: 24 hrs $600 PDH 24

Asphalt Paving Basics for Florida Cities and Counties
Target Audience: Maintenance field technicians, maintenance supervisors, construction workers, inspectors, designers, and pavement management technicians
Patterned after the Asphalt Paving Level 1 course, this workshop can be customized to fit your needs. The class 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, alternative exam is also available upon request but does not result in any qualification associated with the Construction Training Qualification Program (CTQP).

Call 352.273.1685 for pricing 8 hrs PDH 16

Asphalt Paving Level 1 CTQP
Target Audience: FDOT and contractor quality control personnel responsible for verifying roadway characteristics
Learn how to use a rolling straight edge, measure cross slope, perform core sampling, calculate yields, layout core locations, and take temperatures.

Course with written and proficiency exams: 8 hrs $350 PDH 6

Asphalt Plant Level 1 CTQP
Target Audience: FDOT and contractor quality control personnel responsible for verifying asphalt material quality characteristics
Learn how to perform the tests required for quality control, verification, resolution, and acceptance of asphalt mix in accordance with standard test methods.

Course with written and proficiency exams: 24 hrs $645

Asphalt Pavement Maintenance
Target Audience: Inspectors, contractors, road crew supervisors, and personnel with construction inspection job duties
This workshop focuses on materials, construction details, and maintenance practices that help extend the service life of asphalt pavement. Videos and illustrations demonstrate proper maintenance techniques while citing common mistakes that arise on the jobsite. Ample time is allowed for questions about maintenance issues.

$125 Public • $210 Private 6 hrs • CEU/PHD 0.6/6

Safety Edge
Target Audience: Asphalt contractors, city/county/state agency roadway designers/inspectors, paving contractors, paving crews, and roadway safety personnel
Pavement edge drop-off on highways has been linked to many serious crashes, including fatal collisions. To mitigate this issue, FHWA advocates installing the Safety Edge during paving or resurfacing projects by attaching a Safety Shoe to the pavement machine. This technology allows drivers who drift off highways to return to the pavement more safely. The course covers how to install and use the Safety Shoe, the expectations for using this tool, and the changes or procedures necessary for a job, including a hands-on demonstration of installation and use of the actual Shoe.

$120 Public • $200 Private 12 hrs • CEU/PHD 1.2/12
Chainsaw Safety

Target Audience: Chainsaw operators — all skill levels

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

$150 Public • $225 Private 6 hrs

Chainsaw Safety — Hands-on

Target Audience: Chainsaw operators — all skill levels

This course includes the basic Chainsaw Safety course plus hands-on instructions regarding the correct use of protective gear, the safe use of wedges/angles, and how to fell trees using OSHA-recommended methods. Participants will fell a tree using proper equipment and techniques and learn about chainsaw operator safety, maintenance, and safe use. The safety and hands-on training duration varies with skill level.

$400 Public • $500 Private Length varies

Chainsaw Safety in Disaster Recovery

Target Audience: Chainsaw operators — all skill levels

This informative, hands-on, safety-oriented class is open to all skill levels. A limited number of hands-on slots are available. Learn the correct way to safely remove and clean up fallen trees and to properly use all safety equipment. Bring your chainsaw and have it examined for any potential problems. Workshop emphasizes OSHA procedures and personal protective equipment (PPE). The safety and hands-on training duration varies with skill level.

$250 Public • $350 Private Length varies

Design

Basics of a Good Road

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

This course features materials, design features, compaction, paving mixes, traffic considerations, soils, road geometry, and drainage of a good road. Videos and illustrations demonstrate proper maintenance techniques while citing common mistakes arising on the jobsite. Ample time is allowed for questions on specific maintenance issues.

$125 Public • $210 Private 6 hrs • CEU/PDH 0.6/6

Highway Capacity and Traffic Impact Analysis

Target Audience: Engineers and planners from city, county, and state agencies; consultants and others involved in traffic impact analyses for the design and approval of new land developments, including the modification of existing facilities.

This training includes lectures and software demonstrations about how to conduct a typical traffic impact analysis to ascertain the effects of a proposed development on the adjacent roadways and intersections, with the goal of defining the appropriate mitigating improvements required.

Day one provides instruction on those procedures necessary for performing this analysis and defining deficiencies in future operations. General highway capacity principles and specific Highway Capacity Manual (HCM) 6th Edition methodologies for signalized and unsignalized intersections will be covered in some detail. The Highway Capacity Software (HCS7) will be demonstrated to illustrate application examples for each procedure.

On day two, the traffic signal warrant analysis process will be covered, using the Manual on Uniform Traffic Control Devices (MUTCD) procedures. Following this, the Traffic Impact Analysis (TIA) process will be described in general, then a typical development request will be used to illustrate the following steps: trip generation from the development; background traffic with growth added; adjustments for internal capture and pass-by trips; future traffic distribution to affected roadways and intersections; traffic signal warrant analysis; and capacity and level-of-service (LOS) analyses for existing and future scenarios. Results will be reviewed to identify deficiencies and develop mitigation alternatives. Combinations of improvements will be defined for the final proposed design.

Both days: 14 hrs

$295 Public • $395 Private • CEU/PDH 0.12/12

Day one only: 7 hrs

$175 Public • $225 Private • CEU/PDH 0.6/6

Day two only: 7 hrs

$175 Public • $225 Private • CEU/PDH 0.6/6
Intersection Capacity Analysis

Target Audience: Engineers and planners from city, county, and state agencies; consultants and others involved in intersection traffic analysis

This one-day training course provides lectures and workshops on the application of the Highway Capacity Manual (HCM 2010) procedures and use of the Highway Capacity Software (HCS 2010) for the operational analysis of intersections.

The procedures are covered in detailed presentations following the HCM 2010 methodologies, including the supplemental information as appropriate. The analytical procedures for Two-Way Stop Control, All-Way Stop Control, Roundabouts, Signalized Intersections, and Urban Streets are presented step-by-step from beginning to end, including working through example problems to ensure a complete understanding.

The Highway Capacity Software (HCS 2010), which implements the procedures defined in the HCM 2010, is demonstrated with example problems. Instruction on the HCS 2010 interface, help system, and report options is provided to reinforce the HCM 2010 procedures as applied in software.

$200 Public • $250 Private 7 hrs • CEU/PDH 0.7/7

Traffic Engineering Fundamentals

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

This class covers signal systems and operations, analysis of roadway capacity and level of service, intelligent transportation systems, traffic control devices, roundabouts, and traffic incident management. Choose from all three days, days one and two, or day three.

All three days: 21 hrs
$545 Public • $625 Private
Days one and two: 14 hrs
$425 Public • $550 Private
Day three: 7 hrs
$250 Public • $350 Private

Earthwork

Earthwork Construction Inspection Level 1
CTQP

Target Audience: FDOT and contractor quality control technicians who perform field testing of soils used for roadway construction

Trainees will learn how 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 nuclear gauge use and maintenance, determination of moisture levels in the soil, and utilization of the FDOT Earthwork Records System. Nuclear Safety Certification is required for qualification.

Course with written and proficiency exams: 14 hrs
$475 CEU/PDH 0.8/8

Earthwork Construction Inspection Level 2
CTQP

Target Audience: FDOT and contractor quality control technicians who verify that earthwork test results meet acceptance criteria and comply with standards, specifications, and contract documents

Improve your skills in applying standards and specifications associated with earthwork sampling, testing, recording, and inspecting earthwork construction on FDOT projects.

Course with written exam: 10 hrs
$400 CEU/PDH 0.8/8
Nuclear Density Gauge Safety (incl. HazMat)

Target Audience: Technicians who use or work near nuclear density gauges

Technicians transporting and handling nuclear density gauges are required to attend the eight-hour Nuclear Density Gauge Safety course. This course covers the safe operation of portable nuclear density gauges and includes safety regulations for storing, transporting, and handling gauges. Passing the exam fulfills the eight-hour course requirement. Continued gauge usage requires requalification every three years, either by successfully completing this training or passing the Nuclear Density Gauge HazMat requalification training. The class is required for Earthwork Construction Inspector Level 1 qualification and is highly recommended for Asphalt Paving Level 1 technicians as they use or work near nuclear density gauges.

Course with written exam:

8 hrs  $150  CEU/PDH 0.6/6

Nuclear Density Gauge HazMat (requal)

Target Audience: Technicians who use or work near nuclear density gauges

This course covers the safe transport requirements of portable nuclear density gauges and includes safety regulations for storing, transporting, and handling gauges. Technicians transporting and handling nuclear density gauges who have attended the eight-hour Nuclear Density Gauge Safety course are required to successfully complete this requalification training every three years and pass the exam. The class is required for Earthwork Construction Inspector Level 1 qualification and is highly recommended for Asphalt Paving Level 1 technicians as they use or work near nuclear density gauges.

Course with written exam:

4 hrs  $100  CEU/PDH 0.3/3

Bucket Truck — Safety/Hands-on

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

This workshop is held at your location using your equipment. Topics include personal safety, personal protective equipment (PPE), pre-use inspection, functional operation, and inspection of all components. It also covers the importance of routine inspection reports and unit maintenance, as mandated/required by OSHA, as well as information on mechanics, hydraulics, fluids, and the dielectric integrity of the mast and boom/bucket. Participants perform hands-on pre-use inspection, correct setup of a unit on available surface for maximum stability, and load capacities of the bucket on a five-degree slope. Participants earn a certificate of competency for successfully completing the course and written exam. The safety and hands-on training duration varies with skill level.

$300 Public  $400 Private  Length varies

Crane Truck Safety: New Operator and Experienced Operator Hazard Analysis

Target Audience: New and experienced operator on your equipment at your facility

This course covers basic crane operator safety and provides an overview of OSHA and other regulatory standards. Trainees will also learn safe procedures in a variety of situations, such as positioning and machine setup, barricade and work zone perimeter establishment, lift planning, and accurate load weight assessment. The course provides participants with important awareness of hazardous conditions such as power lines, incline, wind effects, shock loading, tie-offs, and snagging. After covering an extensive list of additional considerations for crane truck operators, the course concludes with practical application of these methods in virtual case studies.

$300 Public  $350 Private  6 hrs

Heavy Equipment

Backhoe — Safety/Hands-on

Target Audience: Backhoe operators — all skill levels

This training provides equipment operators with classroom and hands-on experience while acquainting operators with proper road profiles, drainage issues, maintenance methods, and new techniques and technologies. It also covers safety, backhoe types, maintenance, speed, aggregate types, road profiles, ditching, draining, dust control, wetlands issues, and more. The instructor provides field assistance on backhoe techniques and solving problems on your agency’s local roadways. The safety and hands-on training duration varies with skill level.

$600 Public  $700 Private  Length varies
Dozer/Caterpillar — Safety/Hands-on
Target Audience: Dozer operators, managers, operator supervisors — all skill levels

More than any other type of heavy equipment, dozers are in the thick of things, encountering many types of materials and ground conditions as they handle tasks throughout the roadway/yard/mine, such as pushing truckloads of material over dumps, building lifts and cleaning up shovel pits. It takes a highly skilled operator to do these jobs safely and efficiently.

This is a safety workshop at your location, using your equipment. This workshop complies with all OSHA regulations. We will cover how a dozer works, safe operating rules/techniques, load handling, inspection, and hands-on operating procedures. A certificate of competency is included in this workshop as well as all handouts and materials.

- $800 Public • $950 Private
Length varies

Excavator — Safety/Hands-on
Target Audience: Operators — all skill levels

This workshop provides equipment operators with classroom training and hands-on experience. It acquaints operators with proper road profiles, drainage issues, maintenance methods, and new techniques and technologies. The classroom session covers topics such as safety, maintenance, articulation, speed, road profiles, ditching, wetlands issues, etc. All participants receive a manual for future reference. Our instructor travels to your municipality and provides field assistance with Gradall techniques on your operator’s local roads.

- $650 Public • $750 Private
Length varies

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. Topics include how a forklift works, safe operating rules/techniques/procedures, load handling, and inspection. Participants earn a certificate of competency for successfully completing the written and proficiency exams. The safety and hands-on training duration varies with skill level.

- $250 Public • $350 Private
Length varies

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/procedures, load handling, and inspection. Participants earn a certificate of competency for successfully completing the course and written exam. The safety and hands-on training duration varies with skill level.

- $425 Public • $525 Private
Length varies

Gradall Hands-on
Target Audience: Gradall operators, managers, operator supervisors — all skill levels

This workshop provides operators with classroom training and hands-on experience. It acquaints the operator with proper road profiles, drainage issues, maintenance methods, and new techniques and technologies. The classroom session covers safety, maintenance, articulation, speed, road profiles, ditching, wetlands issues, etc. All participants receive a manual for future reference. The second portion of training is “hands-on”. Our instructor travels to your municipality and provides field assistance with Gradall techniques on your operator’s local roads.

- $350 Public • $400 Private
Length varies

Grapple Truck Operator Orientation and Hazard Analysis
Target Audience: New and seasoned operators, division supervisors, agency safety officers, department safety coordinators, general safety trainers, and fleet team members

Designed specifically for municipal public works, parks, streets/roads, solid waste, or any other city employees who may be called on to operate the grapple truck. Also great for emergency backup personnel who may be called on to use the equipment in special circumstances, such as after a hurricane. The class is a great orientation for new operators and a good refresher for seasoned operators! This program also has a “train-the-trainer” component so it is perfect for your in-house assigned equipment trainers.

- $250 Public • $350 Private
8 hrs

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, this course covers all makes and models of tractors and mowers, and includes both classroom and hands-on training.

- $195 Public • $250 Private
8 hrs
Load Securement for Truck/Trailering Operations

Target Audience: Designed specifically for municipal public works, parks, streets/roads, water, waste water, distribution/collection and/or storm water utility workers or any other city employees who load, haul and unload mobile equipment and other objects on to trucks and/or trailers. Also recommended for division supervisors, agency safety officers, department safety coordinators, general safety trainers and/or fleet team members.

This course includes both classroom and hands-on training. Classroom time will be spent discussing trailering and load securement hazards and principles, equipment, safety, and loading/unloading operations. Hands-on exercises will feature equipment inspection, loading zone positioning, hazard analysis, equipment and safety.

$295 Public • $395 Private 7 hrs • CEU/PDH 0.6/6

Heavy Equipment Operator (General) and Working in Work Zones Safety

Target Audience: Equipment crew members, division supervisors, agency safety officers, department safety coordinators, general safety trainers, and fleet team members

This class is designed specifically for municipal public works, parks, streets/roads, water, waste water, distribution/collection and/or storm water utility workers, or any other city employees who may be called on to operate the heavy equipment. Course information is also helpful for emergency backup personnel who may be called on to use the equipment in special circumstances, such as after a hurricane or for any reason where no other operators are available. The workshop is a great orientation for new operators and a good refresher for seasoned operators!

$175 Public • $295 Private 8 hrs

Motor Grader Operator — Safety/Hands-on

Target Audience: Motor grader operators, managers, and 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 speed/types/maintenance, blade pitch, articulation, aggregate types, road profiles, ditching, draining, washing/drying, 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. The safety and hands-on training duration varies with skill level.

$695 Public • $795 Private  Length varies

Skid Steer — Hands-on

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

This class teaches important safety practices to use when operating or working near skid steer loaders. It is designed to use with (not replace) hands-on safety training and the equipment operator’s manual and covers the dangers of working with a skid steer loader to help agencies avoid injury or death. We combine safety tips with real hands-on training to show how accidents can be prevented on the job and how the skid steer operates in your environment. A combination of classroom, safety, inspection, and actual hands-on work with the skid steer ensures your employees are ready for the dangerous operations of a skid steer.

$600 Public • $750 Private  Length varies

Maintenance of Traffic

Fire Rescue — Ambulance Responders

MOT Highway Safety

Target Audience: Emergency Personnel, Drivers, First Responders, anyone working on/in an incident on Florida roadways including turnpikes and interstate highways

This course covers the MUTCD and FDOT Design Standards as they pertain to setting up a safety zone around the first responder during incidents. It will cover some highway safety as well as work zone safety to give the responders a better knowledge of safe zones and traffic management.

There will be a hands-on portion in this course to set up options for safety around the vehicle and workers.

$125 Public • $210 Private 6 hrs
Maintenance of Traffic — Basic
Target Audience: Individuals working in traffic control zones on state roadways with responsibility for flagging traffic
Basic MOT training is required for every employee flagging traffic in traffic control zones. This course includes a 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. Requalification is required every four years.

$105 Public • $105 Private 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. Materials include in-depth analysis of Florida Design Standard Index 600 and Part 6 of the MUTCD. Requalification is required every four years.

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

Maintenance of Traffic — Intermediate Refresher
Target Audience: See Maintenance of Traffic — Intermediate
Prerequisite: Valid Intermediate MOT 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. Participants who do not pass the exam must take the full, 16-hour course to requalify. 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.

$120 Public • $160 Private 8 hrs • CEU/PDH 0.7/7

Maintenance of Traffic — Advanced
Target Audience: All personnel with responsibility, 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
Prerequisites: One year of experience in work zone traffic control and responsibility for work zone traffic control plan development
Successful course completion provides Advanced MOT qualification. 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.

$295 Public • $395 Private 20 hrs • CEU/PDH 1.6/16.75

Maintenance of Traffic — Advanced Refresher
Target Audience: See Maintenance of Traffic — Advanced
Prerequisite: Valid Advanced MOT qualification
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 requalify. This refresher course is an overview of the initial course with concentration on changes to the Florida Design Standards, Part 6 of the MUTCD, PPM, CPAM, and Florida’s Standard Specifications for Road and Bridge Construction.

$150 Public • $200 Private 8 hrs • CEU/PDH 0.7/7

Mobile Equipment and Internal Work Zone Safety
Target Audience: Public works employees in water/wastewater, utilities, parks, irrigation, or indoor/outdoor municipal work zones, and those who operate/work near mobile equipment
This workshop covers mobile equipment hazards, crashes, work zone perimeters/barriers, inclines, surface conditions, proximity to excavations/general stability, falling object/rollover protective structures, vehicle restraint devices, rider-passenger rules, pedestrian worker safety rules, suspended loads/rigging, trailing equipment inspection, pre-job checklists, unattended equipment, and nighttime security.

$75 Public • $100 Private 4 hrs
Pilot/Escort Flagging

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

This course reviews the 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 fulfills 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 eight-hour National Safety Council Defensive Driving course or possess a valid CDL (Class A, B, or C); and (3) successfully complete an eight-hour Pilot/Escort Flagging training. We mail a four-year certificate to trainees who successfully complete the exam.

$140  8 hrs

Pilot/Escort Flagging Refresher Online

Target Audience: Refer to Pilot/Escort Flagging
Prerequisite: Valid Florida Pilot/Escort Flagging course certificate

This Computer-Based Training (CBT) refresher consists of approximately four hours of initial course review (self-paced) with concentration on any changes to the Florida Administrative Code in the last four years. We mail a new four-year certificate to trainees who successfully complete the exam. Visit t2citt.ce.ufl.edu/pero to enroll.

$60  4 hrs

Project Management

Construction Estimating

Target Audience: Employees responsible for making construction quantities estimates

This workshop provides agency personnel with practice and experience in making computations for estimating and measuring roadway maintenance quantities and amounts. Participants must supply their own calculator (TI-36X or equivalent) and be able to use it to add, subtract, multiply, and divide.

$120 Public * $210 Private  4 hrs
Final Estimates Level 1
CTQP
Target Audience: FDOT personnel, contractors, and construction inspection personnel responsible for providing proper measurements, computations, documentation, and submission of final estimates.
This course covers general responsibilities and procedures for final estimates, types and methods of proper documentation, and methods for measuring and computing pay-item quantities.
Course and written exam: 8 hrs
$350 CEU/PDH 0.6/6

Final Estimates Level 2
CTQP
Target Audience: All employees responsible for producing, reviewing, and approving monthly, progress, and final payments and/or compiling final estimates packages.
This course covers contract language, asphalt records, final plans, certifications, earthwork requirements, and fuel and bituminous adjustments. It also presents standard policies, procedures, and common practices necessary to produce optimal, accurate, and timely payments.
Course with written exam: 16 hrs
$575 CEU/PDH 1.4/14

Inspecting Municipal Properties
Target Audience: Employees responsible for safety inspection of public properties.
This course covers the inspection of indoor/outdoor work areas, public properties, and access areas; emphasizes basic OSHA regulatory compliance, standard workplace safety issues, desirable/undesirable working conditions, personal protective equipment (PPE) requirements, signage, and marking. It presents agency inspection checklist forms and recommendations for proactive maintenance with limited resources.
$100 Public • $150 Private 4 hrs

Introduction to Highway Construction Inspection
Target Audience: Inspectors, contractors, technicians, and construction personnel.
This course provides participants with an understanding of construction processes and a useful reference for highway construction inspection. It covers chain of command, the preconstruction conference, working shop drawings, construction records, materials control, utility relocation, schedule/contract time, progress estimates, safety, contract modifications, contractor claims, acceptance of work, and final estimates.
$150 Public • $225 Private 7 hrs • CEU/PDH 0.7/7

GIS — Data Sources and Considerations Webinar
Target Audience: Personnel interested in the basics of GIS or are new to the discipline.
Upon completion of the webinar, attendees will have locations for federal, state, and local data in Florida to draw upon for the creation of a basic map or report in GIS. Additional data sites and resources will be covered but not presented in a live demo format due to time constraints. We will also cover data considerations for currency and accuracy, as well as any cyber security issues that can arise when accessing data or software online.
$50 Public • $75 Private 4 hrs

GIS — Data Import, Analysis, and Trends
Target Audience: Personnel interested in the basics of GIS or are new to the discipline.
A continuation of the GIS series from GIS — Data Sources and Considerations. Attendees will learn to view and query GIS data from free ArcGIS Explorer viewer or proprietary ArcGIS Desktop as well as import and display KML data in Google Earth. Advancements in ArcGIS Online cloud data storage and Software as a Service (SaaS) in the GIS industry will be covered.
$50 Public • $75 Private 4 hrs

Safety

Chemical Spill Prevention, Control, and Countermeasures
Target Audience: Public works, streets/roads, parks, building maintenance, wood or metal shop, fleet, and water/wastewater utility workers
This training introduces basic chemical (or hazardous material) management and covers receipt, storage, use, normal disposal, and clean-up of, as well as emergency response for, many chemical substances commonly found in cities, counties, and special districts.
Call 352.273.1685 for pricing 2 hrs

Competent Person — OSHA Standard
Target Audience: Engineers, contractors, supervisors, inspectors, and construction and road crews.
Learn about soil classifications, tests, hazard recognition, and how to apply the standards in this course covering the OSHA Trenching and Excavation Competent Person requirements.
$125 Public • $210 Private 5 hrs CEU/PDH 0.5/5
Confined Space Entry Certification
Target Audience: Municipal water, wastewater and stormwater utility employees
This course identifies and addresses common municipal permit-required confined space situations rarely covered by other programs. It offers a comprehensive review of Confined Space Entry policy and the most advanced permit form. It also covers implementation methods; introduces hazards specific to water, wastewater, and stormwater facilities; presents new safety products, accident prevention, and site analysis measures; and includes a field exercise.

$125 Public • $210 Private 8 hrs

Defensive Driving Skills and Crash Prevention for Heavy Vehicle Operation
Target Audience: Operators of heavy equipment — all skill levels
This class develops knowledge of, and driving skills for, dual- and single-axle dump trucks, ¾-ton pickups, emergency vehicles, and more. Increase your confidence level in operating vehicles with a GVWR over 26,000 lb and towing trailers/vehicles rated at 10,000 lb GVWR or less. The safety and hands-on training duration varies with skill level.

$175 Public • $295 Private Length varies

Fleet Maintenance Safety
Target Audience: Fleet mechanics, managers, supervisors, foremen, and safety officers
This course covers basic and advanced fleet management safety concepts. It also instructs attendees on ways to avoid serious injuries and fatalities related to municipal fleet operations, as well as how to substantially reduce the likelihood of serious city or county garage incidents through worksite safety engineering, the practice of safe procedure, the use of personal protective equipment (PPE), and regular safety education.

$125 Public • $210 Private 6 hrs

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
This class provides the basics of intersection safety problems, issues, and liability, as well as the officials’ role in making local intersections safer while protecting their governments from litigation. It also 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.

$125 Public • $210 Private 7 hrs • CEU/PDH 0.7/7

Lockout/Tagout: Isolation and Control of Hazardous Energy at Municipal Work Places
Target Audience: Public works/utility employees, water/wastewater distribution/plant operators, and anyone exposed to hazardous energy
A total program approach combines lockout/tagout principles with worksite safety engineering, safe work practices, protective devices/products, special clothing and proper use of personal protective equipment in this course. It also presents hazardous energy sources, lockout/tagout concepts applicable to public work spaces, recent public sector lockout/tagout hazards and incidents, and available isolation and/or lockout devices.

$125 Public • $200 Private 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
This class is a basic review of low-cost safety solutions for roadways, emphasizing rural roads, and provides information on common safety problems in a practical format that does not require engineering expertise.

$125 Public • $210 Private 6 hrs

Power Line Safety for the Municipal Worker
Target Audience: Public works/utility crews, safety/safety loss control officers, and anyone working around power utilities
This program educates workers on above- and below-ground power line configurations, activities that place them at risk of contact with high voltage lines, accident prevention methods, and safe work practices when operating new power lines. It also covers power line incident scenarios, issue/incident prevention, and ground-penetrating radar. It includes a field exercise and demonstration.

$75 Public • $100 Private 4 hrs
Roadside Maintenance Safety
Target Audience: Mower tractor operators and vegetation control workers
This course teaches OSHA standards, the fundamentals of safe mower use, traffic control procedures, PPE, sprayers, incident reviews and prevention, and vegetation control, but it is not a hands-on equipment course.

$120 Public • $210 Private 5 hrs

Portable Changeable Message Signs (PCMS) - Programming and Maintenance
Target Audience: Recommended for roadway crews, equipment crew members, division supervisors, agency safety officers, department safety coordinators, general safety trainers and/or fleet team members
PCMS are made for a variety of scenarios. In order to accommodate numerous work zone applications, PCMS come in a variety of sizes, and with various power sources, mounting options, and methods for controlling or programming. This course goes above the normal use of the message board. We concentrate on the use, programming, and maintenance of the message board. Also great for emergency backup personnel who may be called on to use the equipment in special circumstances such as after a hurricane or for any other reason where no other operators are available.

$150 Public • $210 Private 6 hrs

Intermediate Level American Welding Society Certification
Target Audience: All personnel who weld no matter the type, should attend this workshop. Anyone seeking an American Welding Society certification in welding
Prerequisites: Successful completion of the T2 Basic Welding class or at least 1 year of on-the-job training is required.
This course provides the shop welder with an overview of the required safety standards and upon passing the final test and proficiency, the attendee will be issued an American Welding Society Certification. The following forms of welding will be demonstrated and taught; ARC, gas, cutting, metal prep, Integrity, GMAW, and FCAW. You will learn how to cut ferrous metal using oxygen & acetylene as well as how to use a plasma Arc. You will also be taught the proper method of using a grinder to prep metals to be welded and finish joints after welding. Stress-relieving metals, SMAW (stick) and then GMAW (mig) if proficient, will be taught and evaluated.

$2500 per person for public agency personnel with certification
$3500 per person for private agency personnel with certification
$2000 per person for public agency personnel without certification
$3000 per person for private agency personnel without certification
32 hrs • American Welding Society (AWS) Certification
Video Training

Target Audience: Field employees, entry level employees, and supervisors

This efficient video-based training delivers job-related skills information directly to your office, maintenance yard, or training facility. All training materials reflect Florida’s regulations and guidelines. Since the materials are available on demand, you schedule your own training session at your convenience. Your agency is responsible for providing a training facilitator and meeting space. These instructional videos provide important information meant to inspire discussion on a variety of topics relevant to municipal and county public works departments.

To request training, please visit http://www.techtransfer.ce.ufl.edu/t2ctt//Video_Training.asp for more information.

Video Training Program Modules

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Safety Resource Centers

The T2 Center is proud to host efforts that aim to save lives by distributing important safety information through education and promotional items. Visit floridaoprc.ce.ufl.edu or pedbikesrc.ce.ufl.edu to learn more about each center.

Florida Occupant Protection Resource Center (OPRC)

The OPRC was created in 2011 to promote occupant protection in Florida by providing information on child passenger safety (CPS) seats, safety belts, and air bags. Education efforts focus on Florida’s occupant protection laws, supporting enforcement activities, and providing incentive strategies necessary for achieving significant and lasting increases in CPS seat/safety belt usage.

The OPRC fully supports all Florida seat belt campaigns and is dedicated to helping local agencies promote passenger safety through the efforts and resources outlined below.

Occupant Protection Awareness

Child Restraints: Effective January 1, 2015, Florida requires children through age 5 (formerly through age 3) traveling in a motor vehicle to be protected by proper use of a child restraint (Florida Statute 316.613). Children under age 5 may not be tall/heavy enough for a seat belt to protect them properly.

Seat Belts: Florida requires operators of motor vehicles, passengers in the front seats, or any passenger under the age of 18 be restrained by a safety belt.

Air Bags: The OPRC communicates with organizations across Florida to encourage vehicle owners to ensure their passenger protection devices are fully functional.

Resources

- Direct links to a variety of related print-ready literature and materials for download
- Calendar of events promoting occupant protection
- Scholarships to cover certification/recertification for Safe Kids Worldwide Child Passenger Safety (CPS) technicians and instructors
- Stipends for CPS instructors to teach CPS Technician Certification courses (stipulations apply)
- Child restraints provided for authorized CPS instructors and technicians to distribute to families in need
- Network of CPS professionals across Florida who provide the OPRC with information to relay to the public via email, social media, and regional meetings
- Compilation of official statistics on Florida’s child restraint use

Florida's Pedestrian and Bicycling Safety Resource Center

The Pedestrian and Bicycling Safety Resource Center (SRC) is funded by the Florida Department of Transportation (FDOT) to promote safe pedestrian and bicycling activities by providing educational materials and information to all interested Florida residents. Resources may be ordered online free of charge (shipping included) by visiting www.pedbikesrc.ce.ufl.edu. Some of the items available include:

- Activity books
- Brochures
- Calendars
- Posters
- Reflective material

Bicycle helmets for helmet-fitting events are also available for certified fitters. Any adult can become certified by completing the required 2-hour Helmet Fitter training and completing the necessary online forms.

The SRC is also a source of information on pedestrian and bicycle safety statewide meeting dates, times, and locations and on how you can find helmet training in your area. The SRC website features a calendar of events where anyone can post an upcoming safety event.

The staff at the SRC works hard to keep resource center shelves stocked with items that stakeholders have found useful in their education and outreach efforts. Suggestions for new items and feedback on existing items are always welcome.

SRC staff are also available to travel to safety events to assist in helmet fitting and educational material distribution. If you have an event that you would like SRC to support, please email pedbikesrc@ce.ufl.edu with your request. We at the SRC value your feedback and look forward to assisting you with your safety needs.
Would you like to start or stop receiving the Annual Portfolio by mail?

As you may know, the T2 Center went green and began distributing the Florida Technology Transfer Quarterly by email in February 2013. As this portfolio is our only mailed copy, we want to ensure our records are as updated as possible so we can best serve you! Please contact us if this copy is a duplicate, is for someone who is no longer with your agency, or if you would like to receive your own copy of this portfolio.

Would you like to receive the Quarterly Newsletter by email?

You can sign up to receive T2 Center news right in your inbox! Plus, we include links to timely and pertinent information about topics such as events, webinars, proposal and nomination opportunities, aggregates, bicycling and pedestrian safety, infrastructure, roadway safety, traffic, transit, transportation, stormwater and erosion control, and more!

Contact us today at techtransfer.ce.ufl.edu or 352.273.1670.