

MAINTENANCE OF TRAFFIC TRAINING – APPENDIX D

PURPOSE:

To provide direction for training requirements for personnel involved in the planning, design, supervising, implementation, and maintenance of work zone safety. These requirements include 1) identifying responsibilities of the Department and Sponsor/ Providers; 2) providing a method for submittal, review, and evaluation of training courses for qualification as an approved course and a process for periodic reevaluation of each course for continued approval or removal from the approved course list; and 3) providing description of the different categories of training, the content requirements for each category course, and the category of training necessary for different responsibility duties.

AUTHORITY:

Sections 334.044, 334.048, 337.401 and 316.0745, Florida Statutes (F.S.)
Florida Administrative Code Rule 14-15.010 and 14-46.001 (F.A.C.)
Federal-Aid Policy Guide 23 CFR Parts 630J and 655F (Federal Regulations).

SCOPE:

Training courses approved in accordance with this procedure or the Utility Accommodation Manual (UAM) Section 8.4 shall be the only training accepted as meeting the standards for qualifying persons to plan, design, implement, inspect, and/or supervise the selection, placement, or maintenance of traffic control schemes and devices in work zones on streets and highways within the State Highway System right of way. Persons possessing current valid and verifiable wallet cards issued by an approved Provider in accordance with this procedure or identification issued or approved by a certified Utility Agency Owner in accordance with the UAM shall be the only personnel approved to work on the maintenance of traffic activities for which they have been trained.

REFERENCES:

- Procedure No. 750-030-010 (Maintenance of Traffic Committee);
- Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD);
- Design Standards, Topic No. 625-010-003;
- Plans Preparation Manual (FPPM) Topic No. 625-000-007;
- Construction Project Administration Manual (FCPAM), Topic No. 700-000-000;
- Utility Accommodation Manual, Topic No. 710-020-001, and
- Standard Specifications for Road and Bridge Construction.

BACKGROUND:

Work zone traffic control is an important function necessary in providing a safe environment in those areas where workers and transportation modes may compete for common or adjacent space. Every reasonable effort should be made to reduce the risk of injury to both the worker and the transportation system user in these areas of potential conflicting interests. In order to achieve this goal, proper training of all personnel involved in the planning, design, supervising, implementations and maintenance of work zone traffic control is necessary.

The Department has established a ***Maintenance of Traffic Committee (MOTC), Topic No. 750-030-010***, consisting of representatives appointed by the ***State Highway Chief*** Engineer from the Department's Central and District Design, Construction, Maintenance offices and Traffic Operations, and from the Federal Highway Administration (FHWA). This committee's functions include making recommendations on procedures, standards, and specifications involving work zone traffic control issues and to oversee training courses for approval that are submitted in compliance with this procedure.

DEFINITIONS:

Administrator - An individual or group assuming the responsibility of processing courses under the direction of the MOTC.

Department - The State of Florida Department of Transportation.

District - Any of the Department's administrative subdivisions that are headed by a District Secretary.

Institution Training Facility - Any training facility that has a staff of instructors and offers career advancement and enhancement training. The following shall be considered as meeting these criteria: Members of the State of Florida University System, the Department and other state agencies.

MOTC and MOTSC-The Department's Maintenance of Traffic Committees as established by ***Maintenance of Traffic Committee (MOTC), Topic No. 750-030-010***.

Utilities – All privately, publicly or cooperatively owned utilities as established by the ***Utility Accommodation Manual, Topic No 710-020-001***.

May - This is a permissive condition. It is used to identify allowable alternatives.

Shall - This is a mandatory condition or requirement.

Should - This is an advisory condition. This refers to the recommended or preferred process to be followed.

Sponsor/Provider - One who assumes the responsibility of providing the financial support, training materials, and training for Department approved Maintenance of Traffic training

course.

1. RESPONSIBILITIES

(A) Department:

The MOTC shall:

- (1) Have direct responsibility for the content and revision of this procedure and associated attachments.
- (2) Oversee the Administrator responsible for the processing and evaluation of the work zone traffic control training course material in accordance with this procedure submitted by sponsor/providers.
- (3) Prescribe work zone traffic control training requirements for Department employees and any other persons performing work within the State Highway System right of way.
- (4) Furnish training course information and requirements to Central Office and District Human Resource Development Managers to coordinate delivery of training.

(B) Sponsor/Provider:

The Sponsor/Provider shall:

- (1) Submit Training Courses to the Administrator for review and approval. Utility Providers may elect to waive the course review by the Administrator by submitting a utility self certification letter to the Administrator stating that they certify their course and instructors meet all the requirements contained in this procedure.
- (2) Provide training in the appropriate category.
- (3) Update course every two years and resubmit for approval.
- (4) Provide documentation of instructor qualifications.
- (5) Furnish course material for each student.
- (6) Provide the minimum training that is required by this procedure for category approved.
- (7) Document students' training with a wallet size card after successful

completion of the course. Certificates may also be issued at the option of the Provider.

- (8) Document all students' course training by: student name, course category, course date, course location, providers' name, instructors' name, pass/fail status, and date when training or a refresher course is required.
- (9) Submit a yearly report of all the students trained during the last four years. This report should contain the following information: student name, course category, course date, course location, providers name, instructors name, pass/fail status, and date when training or a refresher course is required. Submit this report to the MOTC by January 31 each year.
- (10) Provide original of each student's evaluation form of the course and the instructor(s) to the MOTC within one month after the date the course is taught.

2. COURSES REVIEW AND EVALUATION

- 2.1 Upon receipt of the training course the Administrator shall review the course content, method of instruction, and conformance to Department standards and determine the appropriate category of the training course. This review should be completed within 60 calendar days and the Administrator shall present its findings to the full MOTC for approval or disapproval. Upon receipt of a utility self certification letter the Administrator shall process within 30 calendar days.
- 2.2 The Administrator shall forward to the course sponsor/provider all general comments regarding the approval or disapproval of the pending training course. The course or utility self certification letter shall be approved by the MOTC before the sponsor/provider may implement any training of personnel that work within State Highway System right of way.
- 2.3 Review and approval of course updates or revisions shall follow the same evaluation schedule.

3. APPROVED COURSES

- 3.1 The State Roadway Design Engineer's Office shall maintain a list of approved courses and their sponsors/providers. The official list of approved courses, category descriptions, and addresses of course sponsors/providers and approved instructors is provided on the Department's Web site at:
<http://www.dot.state.fl.us/rddesign/MOT/MOT.htm>

- 3.2 A minimum of one current copy of each approved course's materials and accompanying documentation or utility self certification letter shall be maintained by the Administrator including approval dates for the original course and all subsequent revisions
- 3.3 The Sponsor/Provider is responsible for submitting and monitoring courses to assure that course updates are performed every two years. Failure to keep a course current and updated will result in the course Sponsor/Provider having its course removed from the approved course list.
- 3.4 When courses are identified by the Administrator as needing updating, the Administrator shall advise the sponsor/provider in writing of the pending removal of its course from the approved course list if the course is not made current. If the sponsor/provider does not update course to meet the training requirements of this procedure and submit the update or utility self certification letter for review by the Administrator within two months, the MOTC chairperson shall advise the State Roadway Design Engineer's Office that the course shall be removed from the approved course list or to hold such action pending an ongoing review of a course revision.
- 3.5 Records, utility self certification letters and course materials for those courses removed from the approved course list shall be maintained by the Administrator for a period of four years. Personnel trained utilizing such courses while they were in approved status shall be considered as having met the training requirements of this procedure.

4. TRAINING REQUIREMENTS

- 4.1 The objective of these training courses is to provide every person involved with Work Zone Traffic Control with constant and consistent education to ensure that Department standards are followed in planning, designing, supervising, implementing, and maintaining work zone traffic control.
- 4.2 Work zone traffic control schemes and devices shall not be implemented or installed in the field unless performed by or under the direct supervision of a person who has satisfactorily completed the training requirements prescribed herein.
- 4.3 All Department employees, contractors, consultants, surveyors, utility company personnel, local maintaining agency, or any other appropriate person responsible for work zone traffic control planning, design, implementation, inspection, and/or for supervising the selection, placement, or maintenance of traffic control schemes and devices in work zones on the State Highway System right of way shall satisfactorily complete the training requirements of this procedure in the appropriate category of involvement in accordance with the authority identified in the Authority section.

- 4.4 The Department shall require documentation of successful completion of a Work Zone Traffic Control training course. This requirement is included in such documents as construction, maintenance, design or inspection contracts, specifications, special provisions, the **Utility Accommodation Manual, No. 710-020-001**, and permits.
- 4.5 This procedure does not apply to Law Enforcement Officers.

5. TRAINING CATEGORIES

- 5.1 To satisfy the Department's training requirements, the MOTC identified four training categories for Work Zone Traffic Control and Maintenance of Traffic training courses.

(A) Basic Training

- (1) This course is required for all persons with the following duty:
- (a) Flagging traffic

(B) Restricted Activities Training

- (1) This course is required for all persons with duties that include any of the following activities:
- (a) Direct responsibility for placement of work zone traffic control devices for minor work where the work activity complies the following condition:
- Utilize only work zone setups covered in **2006 Design Standards Indexes 601, 602, 603, 604, 605, 611, 612, 613, 615, 616, 635** and **660**, in accordance with **Index 600** requirements. For work zone setups other than those specifically covered in these indexes, Intermediate or Advance Training is required as applicable.

(C) Intermediate Training

- (1) This course is required for all persons with duties that include any of the following activities:
- (a) Direct responsibility for placement of work zone traffic control devices;
- (b) Direct responsibility for field maintenance of work zone traffic

- control devices;
- (c) Inspection of the placement or operational function of work zone traffic control devices;
- (d) Drafting or electronic generation of work zone traffic control plans.

This course is not required for persons having successfully completed the Restricted Activities Training Course for activities limited to those described in **Section 5.1(B)**.

(D) Advanced Training

- (1) This course is required for personnel with responsibility or authority to decide on the specific maintenance of traffic requirements to be implemented. These positions include the following:
 - (a) The engineer responsible for the work zone traffic control plan development;
 - (b) The work zone traffic control supervisor.

This course is not required for submitting Traffic Control Plans for utility work, unless such persons have to sign and seal the Traffic Control Plans in accordance with the **UAM**.

- 5.2 Restricted Activities, Intermediate and Advanced courses shall provide for a refresher course that contains an overview of the initial course with concentration on any changes to the information that has occurred in the most recent four years.
- 5.3 Training or refresher courses, for all 4 category levels, are required every four years for all persons to continue to be qualified to perform their assigned duties. Persons who have maintained current certification by retesting from an approved provider may take a training or refresher course to comply with this procedure.
- 5.4 Upon successful completion of a training course, each individual shall receive a wallet size card, reflecting the student's name, the provider's name and ID #, the instructor's name, the course category, the date the course was successfully completed and the issuance date, and the date training, or a refresher course, is required Certificates may also be issued at the option of the Provider.

6. SUBMITTAL AND EVALUATION SPONSOR/PROVIDER TRAINING COURSE CRITERIA

- 6.1** Submit Maintenance of Traffic (MOT) training courses (Restricted Activities, Restricted Activities Refresher, Intermediate, Intermediate Refresher, Advanced, or Advanced Refresher) or utility self certification letter to the Department's Maintenance of Traffic Training Administrator for review and approval. The Administrator shall review the course content, method of instruction, and the appropriate category of course training prior to approving its use in training of personnel that work within the State Highway System right of way. An Institutional Training Facility or Utility shall sponsor all courses submitted. The sponsor shall meet all training course requirements contained in this procedure, before performing MOT training in the State of Florida.

The facility or utility shall also retain copies of all student test records, and evaluation forms. In addition, providers of Restricted Activities Refresher, Intermediate Refresher or Advanced Refresher courses must document that they have checked that each student possesses a current (no more than four years old), valid and verifiable wallet card for the appropriate category prior to issuing a student a new wallet card upon successful completion of the appropriate category refresher course.

- 6.2** Sponsors/Providers requesting the MOTC to evaluate a training course or a refresher course shall submit two copies of course material, lesson plan, test with answers, resumes, workshop exercises, sample copy of their wallet size card, and accompanying documentation of their course to:
- (A) The Administrator currently responsible for processing courses under the direction of the MOTC.
 - (B) The name of the Administrator and contact information can be found on the Department's webpage at:
<http://www.dot.state.fl.us/rddesign/MOT/MOT.htm>

6.3 Minimum qualification requirements for instructor:

- (1) Basic: Successful completion of Intermediate or Advanced Course with a current valid and verifiable wallet card.
- (2) Restricted Activities and Intermediate: Successful completion of an Intermediate or Advanced Course with a current valid and verifiable wallet card. Two years of appropriate work zone experience in responsible charge for specific work zone activities in one or more of the following:

Highway:

- (a) Design
- (b) Construction
- (c) Maintenance
- (d) Utilities
- (e) Traffic Operations

- (3) Advanced: Successful completion of an Advanced Course with a current valid and verifiable wallet card. Documentation describing the instructor's knowledge, skills, and abilities detailing his/her involvement in using the following State of Florida documents: **Design Standards, Plans Preparation Manual, Construction Project Administration Manual**, and **Standard Specifications** for work zones applications. Two years of appropriate responsible charge of MOT plans preparation, inspection, or supervision. Work zone experience engaged in one or more of the following:

Highway:

- (a) Design
- (b) Construction
- (c) Maintenance
- (d) Utilities
- (e) Traffic Operations

- (4) Provide documentation of training experience, qualifications and a copy of the instructor's current valid wallet card.
- (5) The MOTC has the authority to review/approve instructors who do not meet the above training requirements. If the MOTC determines the instructor has equivalent education or experience, the MOTC will waive this training requirement. This waiver will require a two-thirds vote by the full MOTC membership. A waiver will be granted for instructors who do not meet the minimum qualifications for instructors when a District Director of Operations/Production recommends to the MOTC that a DOT employee in their District is qualified to provide training in the appropriate category.

6.4 The Course Sponsor/Provider provide all necessary course materials (workbooks, study/reference information, and examination). Each student shall be approved based on the training requirements of this procedure. The instructor shall follow the lesson plan that was submitted to and approved by the MOTC.

6.5 Training shall be offered in up to four categories: Basic, Restricted Activities, Intermediate, or Advanced. In order to successfully complete Basic Training, the instructor shall determine that the trainee has demonstrated knowledge and

proficiency in flagging operations. Successful completion of the Restricted Activities, Restricted Activities Refresher, Intermediate, Intermediate Refresher, Advanced or Advanced Refresher training course by the student shall consist of classroom training, problem solving, and a written test with a score of 70% or greater. Higher course categories may be substituted for lower course categories.

6.6 Prerequisites:

(1) Basic Training

No experience necessary;

(2) Restricted Activities Training

No experience necessary;

(3) Intermediate Training

No experience necessary;

(4) Advanced Training

One year experience in work zone traffic control or responsible for work zone traffic control plan development;

(5) Refresher Training

Persons that have successfully completed training in the Restricted Activities or Intermediate or Advanced category and have kept their certification current by retesting from an approved provider may take the appropriate category refresher course to comply with this procedure. A failing grade on the refresher test, requires that the full course must be taken and successfully completed. A wallet card from an approved provider must be no more than four years old to be considered current.

6.7 Course Content - The minimum requirements for each course shall be as follows:

6.7.1 Basic Training - The minimum basic training areas to be covered shall be **Part 6 of the MUTCD Section 6E (Flagger Control)**, and **Design Standards Index 600 (Flagging Operations and Night Time Flagging)** and **(General Information for Traffic Control through Work Zones)**. The field demonstration shall be a dexterity test using hand-signaling devices (STOP/SLOW paddle and flag) during flagging type operations and placement of traffic control devices. In order to successfully complete Basic Training, the instructor shall determine that the

flagger has demonstrated knowledge and proficiency in flagging operations. A person who has successfully completed the Restricted Activities, Restricted Activities Refresher, Intermediate, Intermediate Refresher, Advanced, or Advanced Refresher Course and holds a current valid and verifiable, wallet card may provide training for flaggers.

The instructor may use training videos, handouts, or other methods to ensure that the flagger has demonstrated knowledge and proficiency in flagging operations. No formal submittal of this course to the MOTC for review is required. No time requirement is set for the training, but the instructor will be required to keep a record of persons they have successfully trained and the date they were trained.

- 6.7.2 Restricted Activities Training** - Classroom instruction on the Design Standards and MUTCD. The minimum Restricted Activities training classroom and field demonstration areas to be covered shall be **Part 6** of the **MUTCD, 2006 Design Standards Indexes 600, 601, 602, 603, 604, 605, 611, 612, 613, 615, 616, 635 and 660** and students participating in a workshop exercise selecting and setting up sample work zone. Flagging operations shall be covered in enough detail that a person who successfully completes this course is capable of providing basic training as described above. A written test with at least 15 questions on traffic control devices, 30 questions on the minimum design standards for traffic control on the State Highway System.
- 6.7.3 Intermediate Training** - Sixteen hours of classroom instruction on the Design Standards and MUTCD. The minimum intermediate training classroom and field demonstration areas to be covered shall be **Part 6** of the **MUTCD, Index 600** series (in detail) of the **Design Standards** and students participating in workshop exercises selecting and setting up two sample work zones. Flagging operations shall be covered in enough detail that a person who successfully completes this course is capable of providing basic training as described above. A written test with at least 15 questions on traffic control devices, 30 questions on the minimum design standards for traffic control on the State Highway System.
- 6.7.4 Advanced Training** - Twenty hours of classroom instruction on the **Design Standards, MUTCD, Florida's Plans Preparation Manual (FPPM), Florida's Construction Project Administration Manual (FCPAM), and Florida's Standard Specifications for Road and Bridge Construction (FSSRBC)**. The minimum advanced training classroom and field MOT review areas to be covered shall be an in-depth and comprehensive review of **Part 6 of the MUTCD and Design Standards (Index 600 series), FPPM (Vol. I, , Ch. 10, & Vol. II Ch. 19), FCPAM Ch.9, FSSRBC (Sections 8-4, 8-6.1, 102)**, design exercises and problem solving of MOT on traffic control plans. Participating in design work samples of rural multi-lane, urban multi-lane, interstate, high volume multi-access urban multi-lane, and traffic control plan exercises that include the design of an MOT traffic plan (that requires special treatment not covered in the **MUTCD** or the **Design**

Standards) and plan exercises that contain dysfunctional elements that require problem solving is required. Flagging operations shall be covered in enough detail that a person who successfully completes this course is capable of providing basic training as described above. A written test with at least 30 questions on traffic control devices, 30 questions on the minimum design standards for traffic control on the State Highway System.

- 6.7.5 Refresher Course** - The refresher course shall consist of an overview of the initial course with concentration on the applicable changes that have occurred in the most recent four years to the *Utility Accommodation Manual (UAM)*, *Design Standards, Part 6 of the MUTCD*, *Florida's Plans Preparation Manual (FPPM)*, *Florida's Construction Project Administration Manual (FCPAM)*, and *Florida's Standard Specifications for Road and Bridge Construction (FSSRBC)*. Course length for refresher courses shall be determined by the sponsor/provider. The written test for each refresher course shall meet the same requirements as the initial course test for that category with approximately 25% of the test questions related to recent changes.
- 6.8** Wallet Card for Completion for Restricted Activities, Restricted Activities Refresher, Intermediate, Intermediate Refresher, Advanced, or Advanced Refresher Training.
- 6.8.1** Successful completion of a course is based on a passing score of 70% or greater and successful completion of class exercises. Upon successful completion of a training course, each individual shall receive a wallet size card, which shows the student's name, the provider's name and ID #, the instructor's name, the course category, the date the course was successfully completed, the issuance date, and the expiration date.
- 6.9 Periodic Evaluation and Course Update**
- 6.9.1** Each course shall be updated every two years. All updates shall be submitted by the course sponsor/provider to the Administrator for approval
- 6.9.2** The MOTC will require all Sponsor/Provider's to update their course content pursuant to the Rule amendment process. This type of update will not require course resubmittal.
- 6.10 Students' Training Documentation**
- 6.10.1** Document all students' course training by providing: student name, course category, course date, course location, provider's name, instructor's name, pass/fail status and date when training or a refresher course is required. Provide documentation to the MOTC upon request.

- 6.11 Courses for training categories shall be stand alone. Any higher category may be substituted for a lower course category.
(Example: Basic Training requirements can be met by completing the Restricted Activities, Intermediate or Advanced Training courses.)

7. TRAINING

- 7.1.1 This entire procedure addresses availability of training for work zone traffic control for both Department and non-Department personnel and can be found on the Department's Web site at:
<http://www.dot.state.fl.us/rddesign/MOT/MOT.htm>

8. FORMS

- 8.1 Utility providers are not required to complete Form 250-050-11, Tress Report.