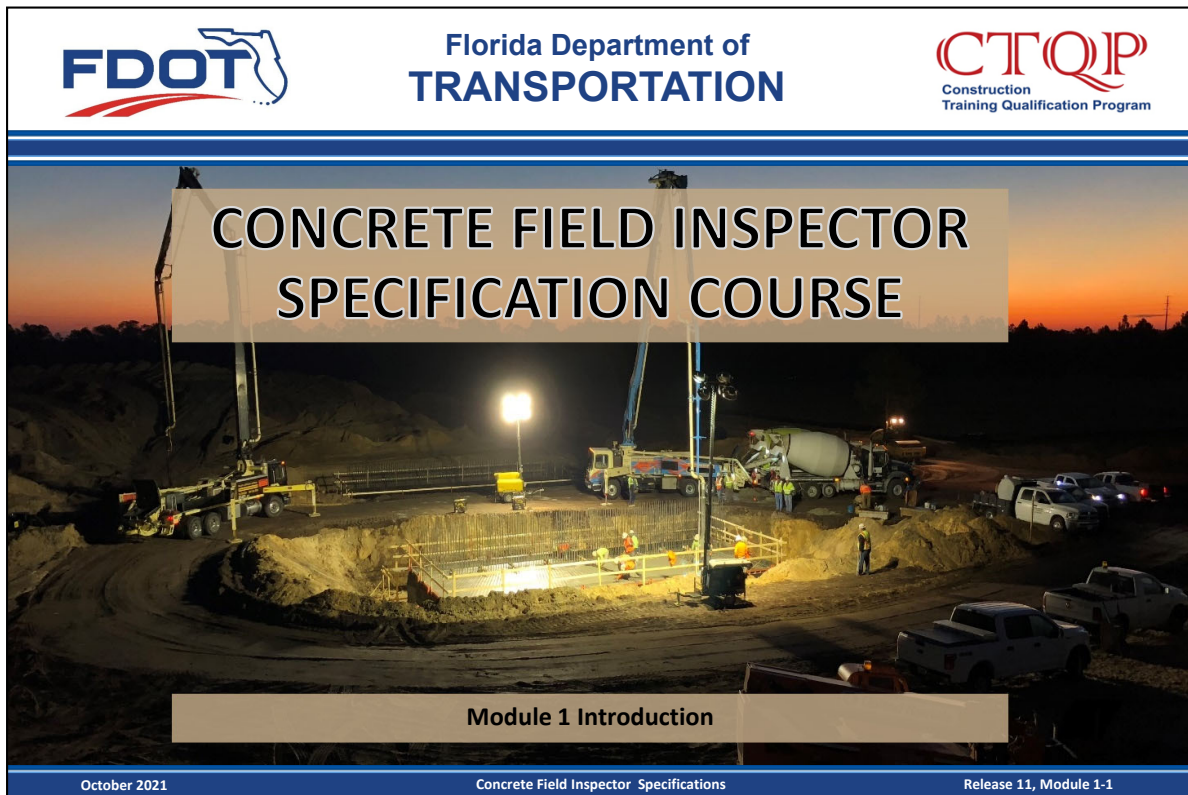


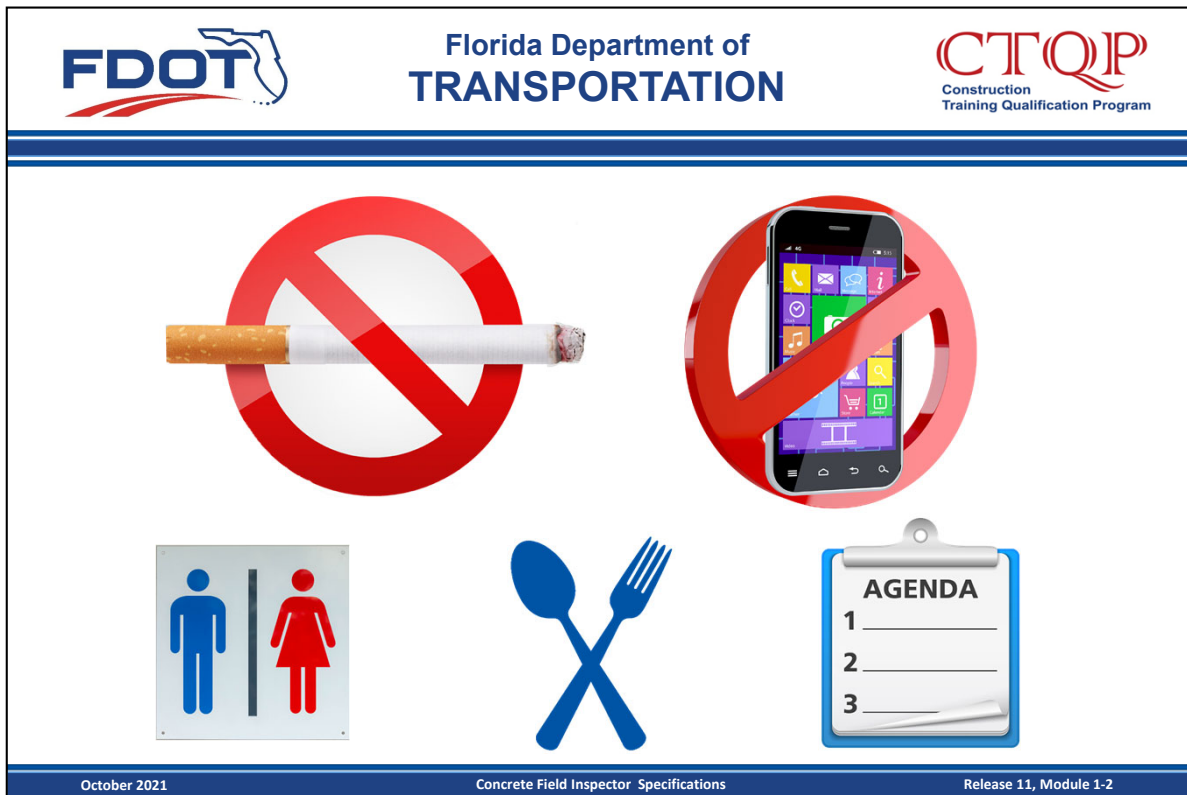


FDOT Florida Department of **TRANSPORTATION** **CTQP** Construction Training Qualification Program

CONCRETE FIELD INSPECTOR SPECIFICATION COURSE

Module 1 Introduction

October 2021 Concrete Field Inspector Specifications Release 11, Module 1-1



Please remember-

- No smoking in the facility
- Please turn off cell phones.

- Agenda

8:00 AM – 5:00 PM Day 1 & 2

8:00 AM – 12:00 Noon Day 3



Florida Department of
TRANSPORTATION



Construction
Training Qualification Program



- Who We Are
- Who Are You
- Your Experience Level

October 2021

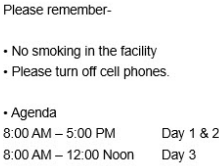
Concrete Field Inspector Specifications

Release 11, Module 1-3



Concrete Field Inspector Specifications

Module 1- Introduction



Please remember-

- No smoking in the facility
- Please turn off cell phones.

• Agenda

8:00 AM – 5:00 PM	Day 1 & 2
8:00 AM – 12:00 Noon	Day 3

WE CAN'T HELP IF YOU DON'T ASK

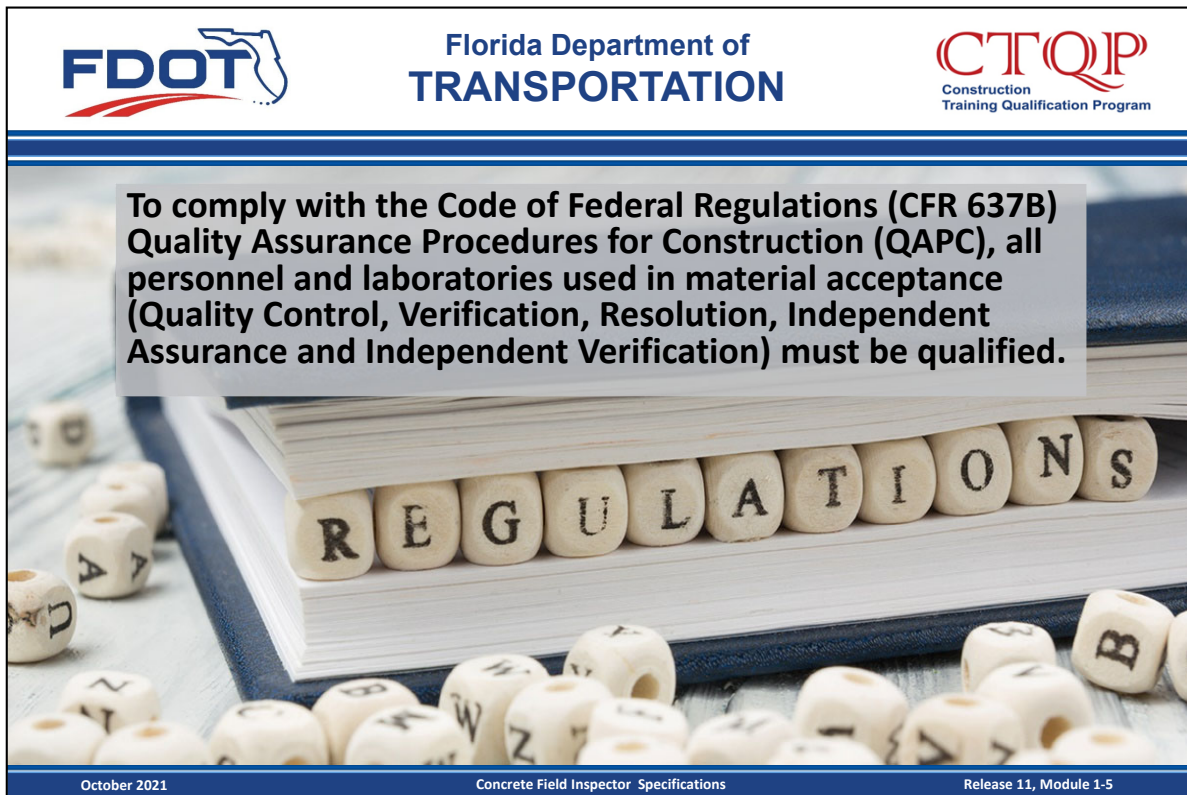
October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-4

It is important that you ask questions when something is not clear, or you are having difficulty with a particular session or item. Asking questions and listening to the answer is one of the most effective learning tools available to you.

The manual was developed so that you can follow along with the instructor during the sessions. The current slide will be displayed at the top of the page and either notes, specifications, drawings or helpful hints, etc. may be displayed on the bottom half.

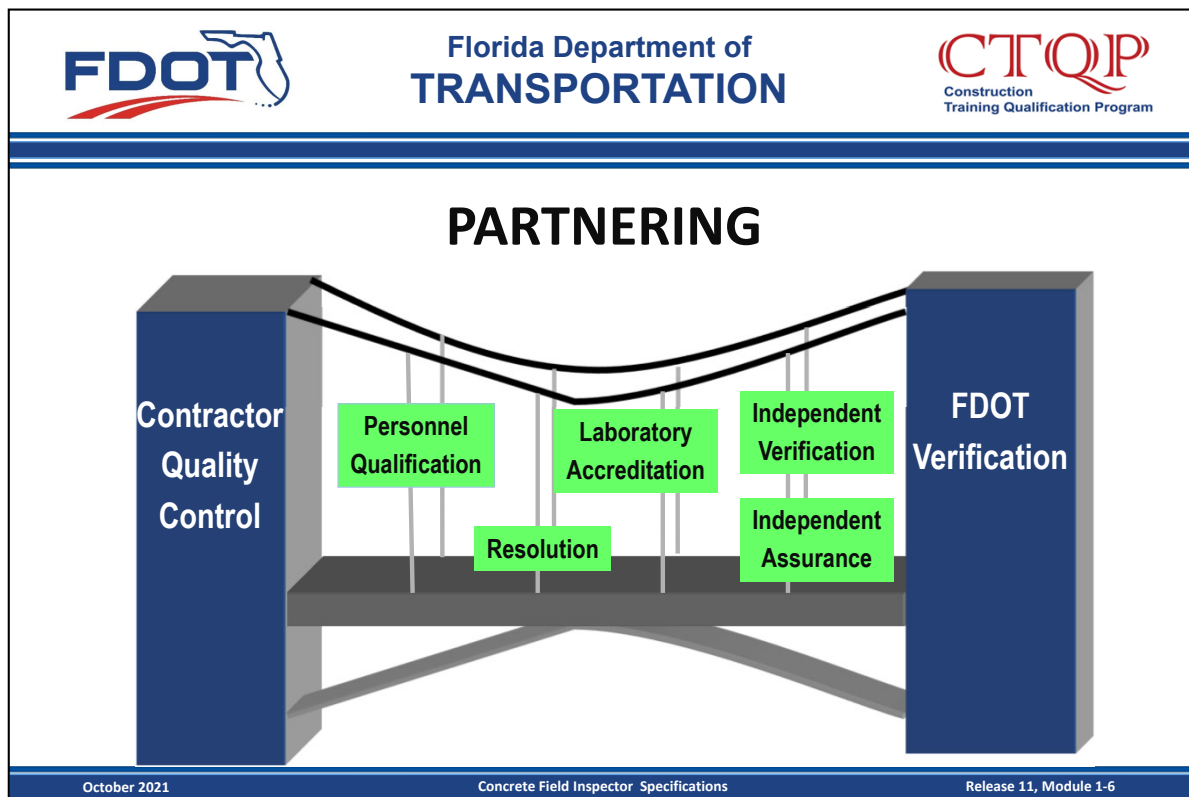


To satisfy this requirement, concrete inspectors performing sampling and testing on Department projects are required to be formally qualified. The qualified technician is required to maintain their qualification. This qualification process involves passing of the Department's Concrete Courses, including this course based upon the FDOT Standard Specifications for Road and Bridge Construction, January 2021 edition.

The technician will also be responsible for maintaining all contract documents, specific to their project.

The Construction Training Qualification Program (CTQP) is in response to 23CFR 637B (QAPC) which requires each state to ensure that qualified personnel are performing construction inspection services on federal-aid roadway projects.

Adherence to roadway and bridge construction standards and specifications, combined with a strong Quality Assurance Program, will ensure that the State of Florida receives the quality of workmanship it pays for.



The core elements of the Quality Assurance program may be compared to the structural elements of a suspension bridge.

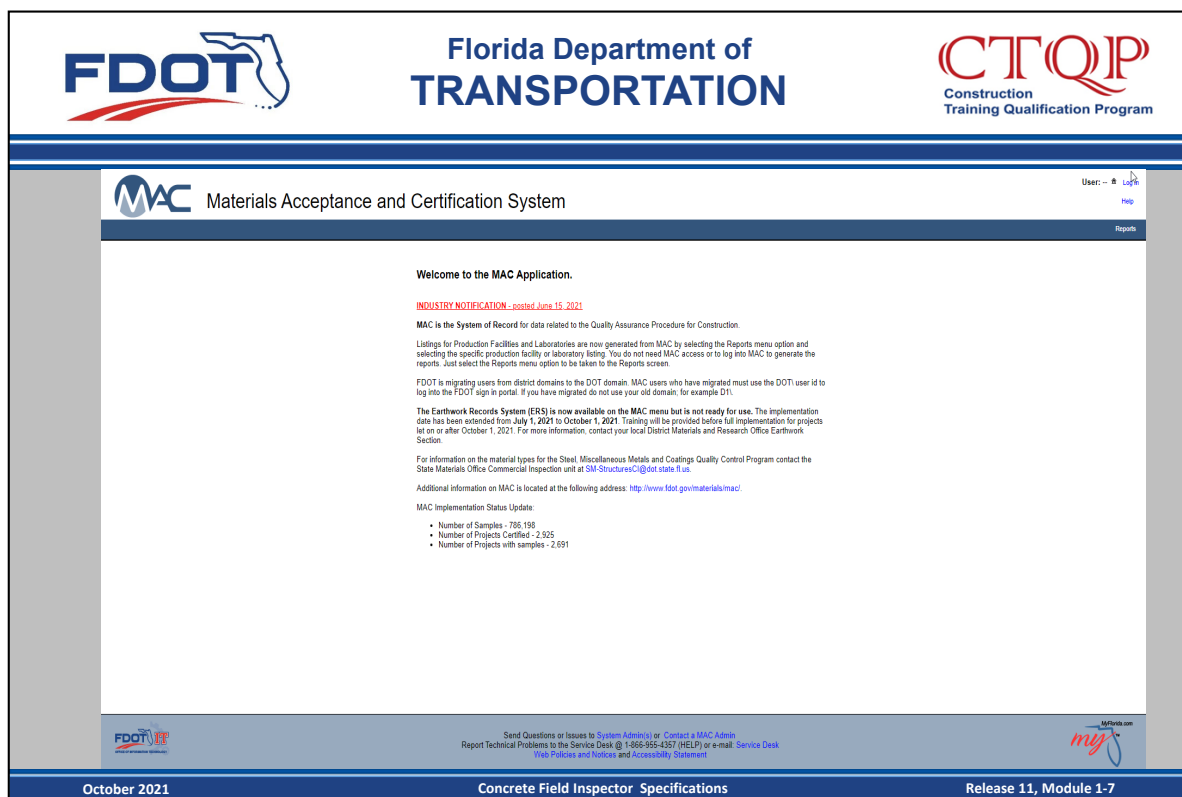
The two primary “towers” being Contractor Quality Control and Department Verification. Supporting elements include the laboratory and personnel qualification requirements, which ensure that the principal facilities and personnel conducting sampling, testing and inspection are can perform their functions.

Additional support is provided by Independent Assurance, which provides an independent assessment of QC and VT sampling and testing. Added to the strength of these two elements is the Resolution process, which is intended to reconcile differences between QC and VT.

Department functions, such as Independent Assurance and Independent Verification are elements of the overall Quality Assurance program.

An additional component that connects all these elements are considered to be part of the Partnering. Partnering is a tool that links the systems and supports them, which keeps them up and running smoothly.

Partnering refers to a voluntary agreement between the Department and the Contractor to use a team-based approach to management of the project.



Use the Materials Acceptance and Certification system (MAC) to input sampling and test result, verify lab qualifications and producer QC program status, and other materials related functions.

NOTE: You do not need MAC access or to log into MAC to generate the reports. Just select the Reports menu option to be taken to the Reports screen and select the required report.



**Florida Department of
TRANSPORTATION**





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Qualified Laboratory Information by Category And District
FDOT State Materials Office, 5007 N.E. 39th Avenue, Gainesville, FL 32609 (352) 955-6600

Categories: Physical; District: District 1

ADDRESS	CONTACT TELEPHONE NUMBER	FAX EMAIL ADDRESS
District: District 1; Category: Physical		
I01004 - Ardaman & Associates, Inc.		
78 Sarasota Center Boulevard Sarasota, FLORIDA 34240 Physical	Greg Stevens (941) 922-3526 Test Method ASTM C1231 ASTM C39 ASTM C617	(941) 922-6743 gstevens@ardaman.com Status Valid Valid Valid Qualifying Agency: CMEC CMEC CMEC
I01009 - Ardaman & Associates, Inc.		
1525 Centennial Drive Bartow, FLORIDA 33830 Physical	Brian Runkles (863) 533-0858 Test Method ASTM C1231 ASTM C39 ASTM C617	(863) 533-7325 brunkles@ardaman.com Status Valid Valid Valid Qualifying Agency: CMEC CMEC CMEC
I01010 - Ardaman & Associates, Inc.		
9970 Bavaria Rd Fort Myers, FLORIDA 33913 Physical	Sue Morgan (239) 768-6600 Test Method ASTM C1231 ASTM C39 ASTM C617 ASTM C78	(239) 768-0409 willowunspringer@gmail.com Status Valid Valid Valid Valid Qualifying Agency: CMEC CMEC CMEC CMEC
D01001 - District 1 and 7 Materials Office		
2730 Hwy 60 West	Timmy Meeks	(863) 519-4354

October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-8

Here is an example of the qualified laboratory report.

Laboratories are qualified by test method.

You want to make sure the laboratory you are reviewing is qualified in the correct test method. For example, the Ardaman & Associates, Inc. laboratory in Bartow is qualified to perform ASTM C1231, ASTM C39, and ASTM C617 concrete test methods.



Florida Department of TRANSPORTATION



Construction
Training Qualification Program



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Structural Concrete Production Facility Listing

FDOT State Materials Office, 5007 N.E. 39th Avenue, Gainesville, FL 32609 (352) 955-6600

Production Facility ID and Description	Contact Information	Physical Address	Mailing Address	Status Date of Action	Company
DISTRICT 1					
01-002 ARGOS	Peter Hallberg phallberg@argos-us.com (407) 509-4211	2901 COOPER STREET PUNTA GORDA, FL 33950	8225 25TH COURT EAST SARASOTA, FL 34243	Quality Control Plan ACCEPTED 1/17/2017	Argos USA Corporation - Concrete Division
01-412 ARGOS	DENNIS DESCHENE ddeschene@argos.com (941) 625-1244	580 PRINEVILLE STREET PORT CHARLOTTE, FL 33954	8225 25TH COURT EAST SARASOTA, FL 34243	Quality Control Plan ACCEPTED 1/11/2017	Argos USA Corporation - Concrete Division
01-484 CEMEX	Ron Holcomb rholcomb@cemexusa.com (239) 825-3515	19300 PEACHLAND BLVD. PORT CHARLOTTE, FL 33948	1425 WIGGINS PASS ROAD NAPLES, FL 33941	Quality Control Plan ACCEPTED 8/31/2016	Cemex, Inc. - Concrete Division
01-498 PREFERRED MATERIALS	PETE WATTERS pete.watters@preferredmaterials.com (239) 560-7986	3333 ACLINE ROAD PUNTA GORDA, FL 33950	25061 OLD US 41 BONITA SPRINGS, FL 34135	Quality Control Plan ACCEPTED 2/8/2016	Preferred Materials, Inc. - Concrete Division

October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-9

Here is an example of producers with accepted QC programs for structural concrete.

You want to make sure the Producer's QC plan is **accepted**.

The screenshot displays the FDOT CTQP website interface. At the top, the FDOT logo is on the left, the text 'Florida Department of TRANSPORTATION' is in the center, and the CTQP logo is on the right. Below this is a navigation bar with links: Home, About FDOT, Contact Us, Maps & Data, Offices, Performance, and Projects. The main content area is titled 'Construction Training & Qualification Program Administration'. It features a 'Verify Certificate' section with a search form. The search form includes a dropdown menu for 'Choose how to search for a certificate' (set to 'By Name'), input fields for 'First Name' and 'Last Name', and a 'SEARCH' button. A sidebar on the left lists links: Home, Program Information, Common Questions, Documents and Forms, Course Calendar, Verify Certificate, Qualification Paths, and Providers Login. The footer contains the date 'October 2021', the page title 'Concrete Field Inspector Specifications', and the release information 'Release 11, Module 1-10'.

This is the Construction Training and Qualification Program (CTQP) website.
Use the website to verify personnel qualifications.
Click on the link entitled “Verify Certificate”.

You can search by either the Name or the Training Identification Number (TIN) of the person. Enter the proper information and click “Search.”

All trainees seeking Concrete Field Technician Level 1 qualification must:

- (1) Hold a current American Concrete Institute (ACI) Concrete Field Testing Technician Grade I certification, and
- (2) Pass the FDOT Concrete Field Inspector Specification examination.

After a trainee has successfully completed both above qualification requirements, the trainee's qualification date shall be added to the CTQP database. The date of qualification shall be the date the last qualification requirement was satisfied.

The CTQP qualification shall expire in five(5) years (sixty{60} months) from the date of completion of the earliest of the two above requirements.

FDOT Florida Department of **TRANSPORTATION** **CTQP** Construction Training Qualification Program

Verify Certificate

Choose how to search for a certificate:

First Name:
Last Name:

SEARCH

CTQP Training History Report [Download Report](#)

Report for:
TIN:
Report Date: 07/20/2021

Valid Qualifications

Qualification Name	Certificate Number	Valid from	Expires on
Asphalt Plant - Level 1	N/A	06/06/2018	06/06/2023
Asphalt Plant - Level 2	N/A	07/31/2018	07/31/2023
Concrete Field Technician - Level 1	N/A	09/21/2019	09/21/2024
LBR Technician	N/A	07/18/2017	07/18/2022

Expired Qualifications

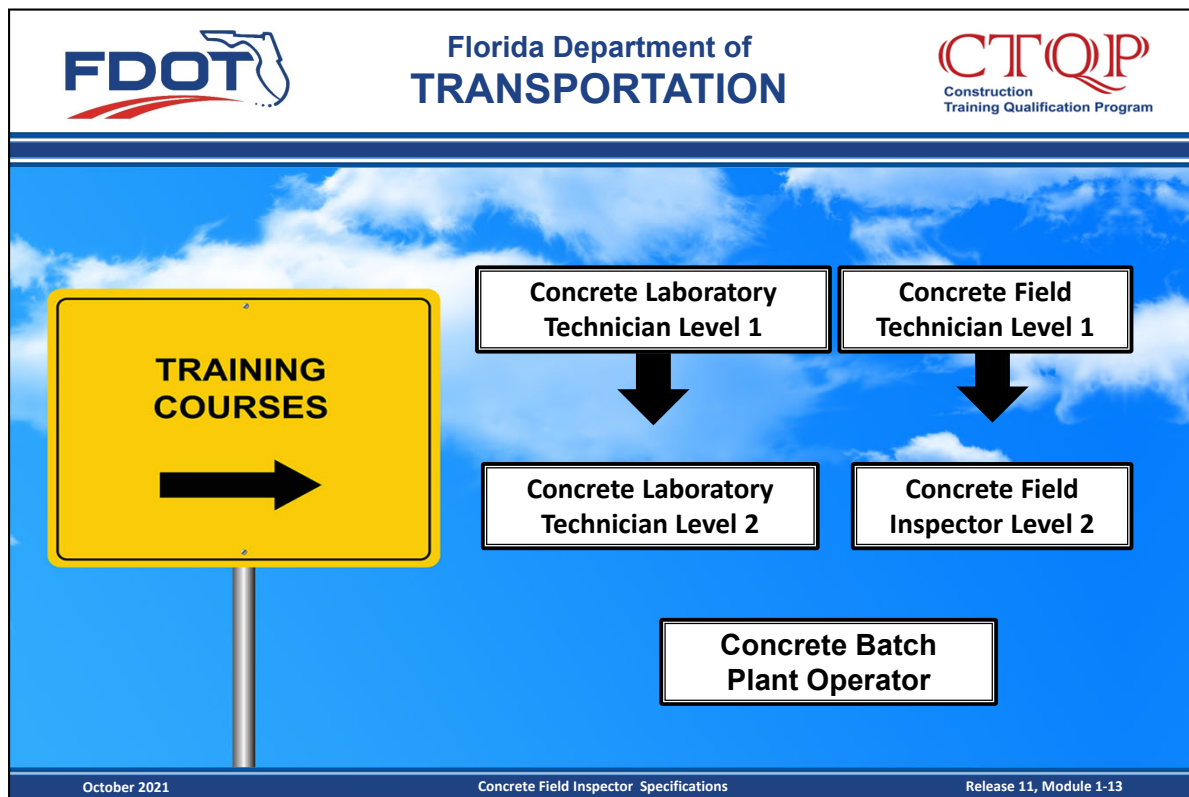
Qualification Name	Certificate Number	Valid from	Expired on
Aggregate Testing Technician	N/A	09/30/2014	09/30/2019
Concrete Field Technician - Level 1	N/A	10/01/2014	10/01/2019
Concrete Lab Technician - Level 1	N/A	10/02/2014	10/02/2019
Qualified Sampler Technician	N/A	09/30/2014	09/30/2019

Pending Qualifications

October 2021 Concrete Field Inspector Specifications Release 11, Module 1-12

The qualifications for that technician will appear, both valid and expired.

You should ensure that the person has a valid qualification in the area(s) of testing needed.



There are several concrete qualifications available to you.

This course is for qualification as a Concrete Field Technician, qualified to sample concrete in the field and input the proper data into MAC.

Additional qualifications, as shown above, are available through CTQP and ACI.

A copy of Chapter 4 of the Construction Training Qualification Manual(CTQM), which details Concrete Qualifications, is presented in the Appendix and available online.



Florida Department of
TRANSPORTATION



To provide you the instruction and skills required for applying the various Standards and Specifications associated with concrete testing and inspection.

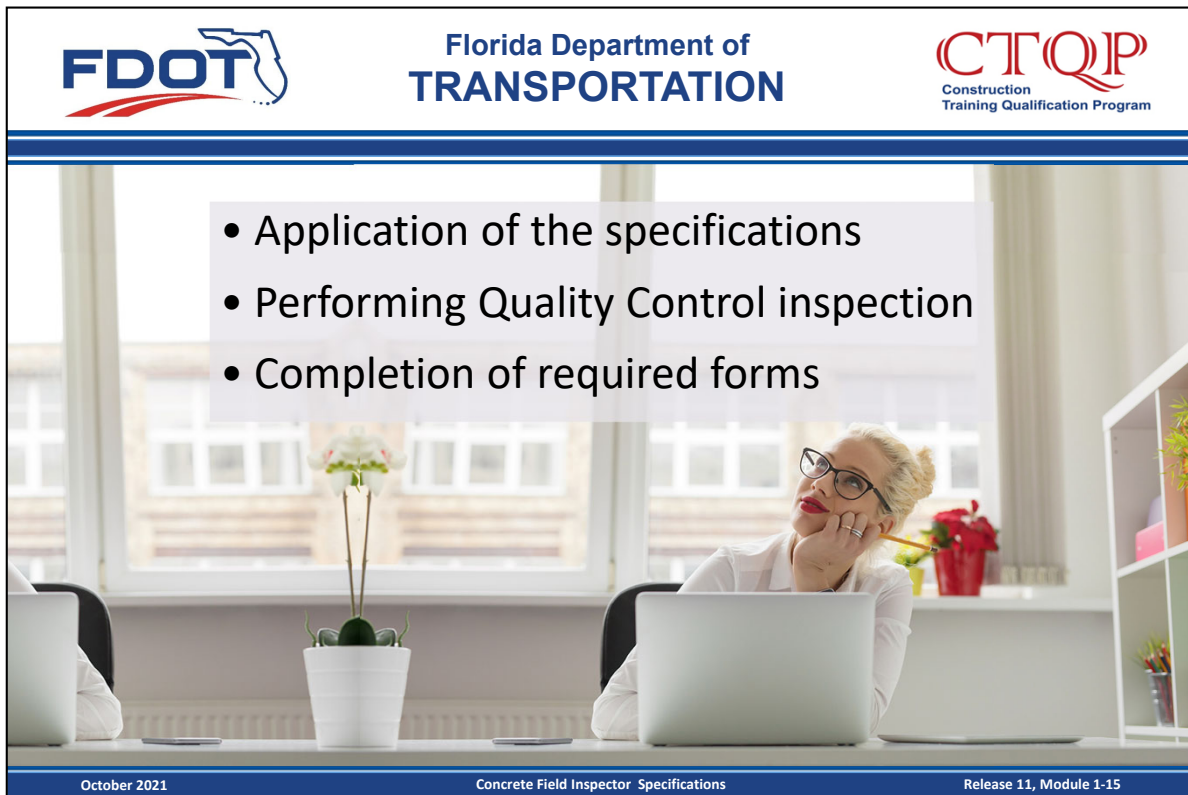
CONCRETE FIELD **INSPECTOR SPECIFICATIONS**

- **Must pass the written examination**
 - 50 questions
 - Multiple choice
 - 2.5 hours

October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-14



The slide features a background image of a woman with blonde hair and glasses, wearing a white shirt, sitting at a desk with a laptop. She is looking out a window with a view of a building. On the desk, there is a small potted plant and a red vase with flowers. The slide is framed by a blue border with logos at the top and a footer at the bottom.

FDOT Florida Department of **TRANSPORTATION** **CTQP** Construction Training Qualification Program

- Application of the specifications
- Performing Quality Control inspection
- Completion of required forms

October 2021 Concrete Field Inspector Specifications Release 11, Module 1-15

Upon completion of this course, you will have attained these learning outcomes.



FDOT Florida Department of **TRANSPORTATION** **CTQP**
Construction Training Qualification Program

Welcome and Introduction

- Section 346, Portland Cement Concrete
- Section 347, Portland Cement Concrete Class NS
- Section 400, Concrete Structures
- Section 415, Reinforcing for Concrete
- Sections 901, 902, 921, 923, 924, 925, 926, 929
- Material Acceptance Certification Program (MAC)

October 2021 Concrete Field Inspector Specifications Release 11, Module 1-16

The course is based upon the January 2021 Standard Specifications for Road and Bridge Construction (Specifications).

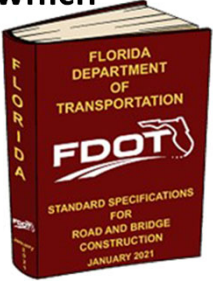
NOTE: Specifications change all the time! The Standard Specifications for Road and Bridge Construction are updated every six (6) months. Depending on the let date of the project will dictate which version of the Specifications is to be used.



The course is based upon the January 2021 Standard Specifications for Road and Bridge Construction (Specifications). However, Specifications change all the time!

The Specifications are updated every six months, which means that the let date of the project will dictate which version of the Specifications is to be used.

It is crucial that you verify which version of the Specification is being used on the project!



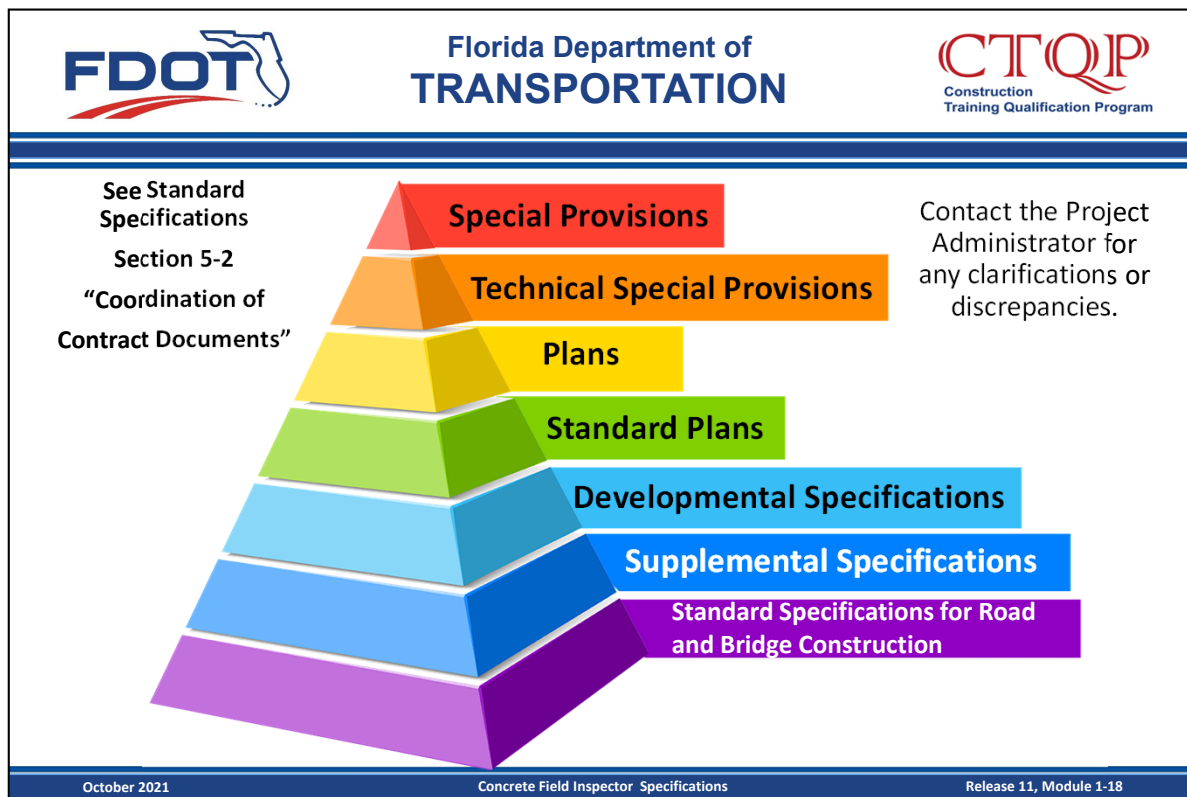
October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-17

The course is based upon the January 2021 Standard Specifications for Road and Bridge Construction (Specifications).

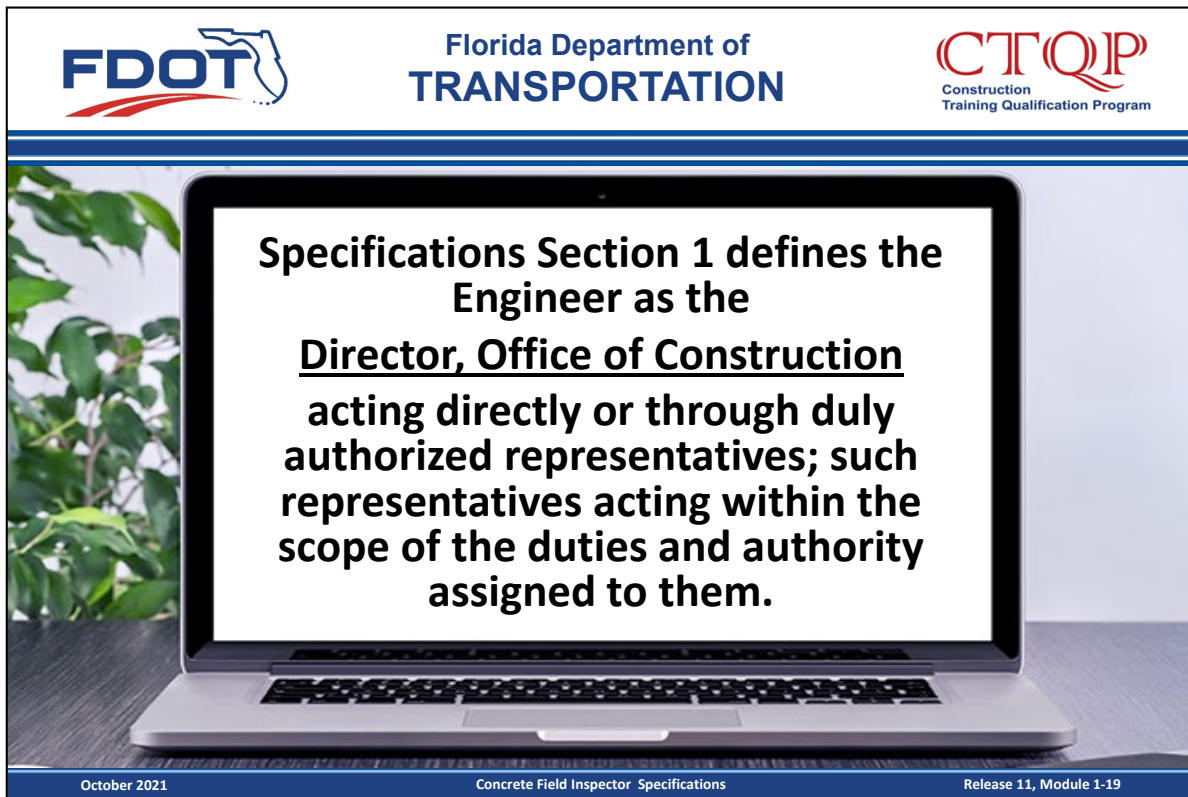
NOTE: Specifications change all the time! The Standard Specifications for Road and Bridge Construction are updated every six (6) months. Depending on the let date of the project will dictate which version of the Specifications is to be used.



Definitions can be found in the Standard Specification Section 1-3 – Definitions.

- **Standard Specifications:** "Standard Specifications for Road and Bridge Construction" an electronic book, applicable to all Department Contracts containing adopted requirements, setting out or relating to the method or manner of performing work, or to the quantities and qualities of materials and labor.
- **Supplemental Specifications:** Approved additions and revisions to the Standard Specifications, applicable to all Department Contracts.
- **Developmental Specification:** A specification developed around a new process, procedure, or material.
- **Standard Plans:** "Standard Plans for Road and Bridge Construction", an electronic book describing and detailing aspects of the Work. Where the term Design Standards appears in the Contract Documents, it will be synonymous with Standard Plans.
- **Plans:** The approved Plans, including reproductions thereof, showing the location, character, dimensions, and details of the work.
- **Technical Special Provisions:** Specifications, of a technical nature, prepared, signed, and sealed by an Engineer registered in the State of Florida other than the State Specifications Engineer or his designee, that are made part of the Contract as an attachment to the Contract Documents.
- **Special Provisions:** Specific clauses adopted by the Department that add to or revise the Standard Specifications or supplemental specifications, setting forth conditions varying from or additional to the Standard Specifications applicable to a specific project.

In cases of discrepancy between the requirements of the Contract Documents, the governing order of the documents is in accordance with Article 5-2 "Coordination of Contract Documents".



The image shows a presentation slide on a laptop screen. The slide content is as follows:

Specifications Section 1 defines the Engineer as the
Director, Office of Construction
acting directly or through duly authorized representatives; such representatives acting within the scope of the duties and authority assigned to them.

At the top of the slide, there are three logos: the FDOT logo on the left, the text "Florida Department of TRANSPORTATION" in the center, and the CTQP logo on the right. The CTQP logo includes the text "Construction Training Qualification Program".

At the bottom of the slide, there is a blue footer bar with the following text: "October 2021" on the left, "Concrete Field Inspector Specifications" in the center, and "Release 11, Module 1-19" on the right.

This is **not** the Contractor's Engineer. Depending upon the application, this could be either the District Materials or Construction Engineer, the Project Administrator or **You**, the Engineer's Representative.



OBJECTIVES OF THIS COURSE

- Know the requirements & Contract Documents of the project
- Know the governing specifications
- Perform all sampling & testing in accordance with the applicable specifications and test methods
- Perform required inspections
- Complete the required forms
- Handle and store all concrete specimens in accordance with the applicable specifications and test methods

October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-20

As the concrete field inspector, you are responsible for performing all required concrete sampling and testing to be performed in the field.

It is extremely important that you are knowledgeable with requirements of the project plans and other Contract Documents, especially those which may change applications of sections 346, 347, 350, 352, 400, etc.

All sampling and testing are required to be performed in accordance with the applicable procedures. Deviations from these procedures can invalidate test results.

You are responsible to complete the required forms properly. Meet with your supervisor prior to project commencement to define which forms and/or documents you are responsible to complete.

Ensure that concrete cylinders made in the field are properly stored and transported in accordance with the applicable procedure. Just as with sampling and testing, deviations from the accepted procedures can result in invalidation of data, increased costs and delays.



Florida Department of
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Construction
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**Any
Questions?**

October 2021

Concrete Field Inspector Specifications

Release 11, Module 1-21