

Construction Inspection Qualification Survey Results

ALABAMA

- 1) Do you have a construction inspector certification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **Yes and no. We don't have an official program, but do require various inspection certifications depending on the work being inspected. Those certifications include Work Zone Safety (i.e. Traffic Control), Qualified Credential Inspector (Stormwater), Radiation Safety, Earthwork/Base Technology, Asphalt Roadway Technician, Concrete Technician (ACI and ALDOT).**
- 2)) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please **No**
- 3) Do you require your CE& I Consultants and their staff to be certified? If yes, please describe. **Yes, with the same six certifications outlined in (1) as needed.**
- 4) For states that do have certification programs (at either the technician or professional level) :
 - a. Is the certification regional (i.e. the same certification for all states in the region)? **Some of our certifications are ALDOT specific, but some we would accept as reciprocal (example – Work Zone Safety)**
 - b. Do you have reciprocity arrangements with other states (i.e. you accept other states' certifications as comparable to your state)? **No**
 - c. Do you have different levels of certification (e.g. Level I, II, III)? **Yes, for material inspection/testing such as our Superpave HMA production that is handled by our Materials & Tests personnel.**
- 5) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **OJT**
- 6) What types of initial construction inspection training do you provide? **OJT; no formal certification classes are offered until a new employee has worked six months and is off "probation".**
- 7) What types of continued construction inspection training do you provide? **OJT training at the Division/District level to improve skills and emphasize areas needing improvement. There are also specific training classes offered such as Advanced Surveying and Geotechnical/Foundation issues (Drilled Shaft Construction, MSE Walls, Soil Nailing, etc) that are based on project specific work and need.**
- 8) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **No**
- 9)) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. Has your state conducted any analysis, research or studies in how to best to optimally use construction inspection staff? If yes, please describe. **No**

CALIFORNIA

1) Do you have a construction inspector certification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **We train our staff but do not require certification as an inspector. Certain areas have special requirements, usually for testing purposes (e.g. welding). These are generally national type certifications.**

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe **No**

3) Do you require your CE& I Consultants and their staff to be certified? If yes, please describe.. **They generally are required to possess the same qualifications as our own employees. Certain specialty consultants may have a certification requirement but these are usually case-by-case situations.**

4) For states that do have certification programs (at either the technician or professional level) : **N/A**

a. Is the certification regional (i.e. the same certification for all states in the region)? Some of our certifications are ALDOT specific, but some we would accept as reciprocal (example – Work Zone Safety)

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' certifications as comparable to your state)? **No**

c. Do you have different levels of certification (e.g. Level I, II, III)? **Yes, for material inspection/testing such as our Superpave HMA production that is handled by our Materials & Tests personnel.**

5) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **OJT**

6) What types of initial construction inspection training do you provide? **OJT; no formal certification classes are offered until a new employee has worked six months and is off "probation".**

Safety training, and a "Construction Bootcamp" to cover general procedures, documentation, construction sites, and other introductory items. Testers will spend time with our material labs learning proper protocols and procedures.

7) What types of continued construction inspection training do you provide? **OJT training at the Division/District level to improve skills and emphasize areas needing improvement. There are also specific training classes offered such as Advanced Surveying and Geotechnical/Foundation issues (Drilled Shaft Construction, MSE Walls, Soil Nailing, etc) that are based on project specific work and need.**

Response would be similar.

8) Has your state developed any on-line construction inspection

training courses and testing. If so, please list/describe (include website). **No**

9) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. . **No**

COLORADO

Colorado

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **Yes. Math, Plan Reading and Surveying.**

<http://www.coloradodot.info/programs/tetp/construction-inspector-qualification>

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. **Our testers have to have certain qualifications. Our Resident Engineers and Project Engineers are not required to have construction experience.**

3) Does your state have an in-house construction manager qualification program. If yes, please describe. **No.**

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe **Consultants must have the same qualifications as required by CDOT employees.**

a. Does your state provide the training to consultants? If yes, who pays?
There are study guides on CDOT's external website.
<http://www.coloradodot.info/programs/tetp/construction-inspector-qualification>
For training class put on by CDOT, the Contractor pays.

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)? **Same qualification regardless of what part of the State you are in.**

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?
No reciprocity with other states.

c. Do you have different levels of qualification (e.g. Level I, II, III)? **No.**

d. Does your state use classroom training, online training, or both?
Both

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **Training.**

7) What types of initial construction inspection training do you provide? **N/A**

8) What types of continued construction inspection training do you provide? **N/A**

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **No**

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No.**

11) If there are web links to training used by your state please provide.

<http://www.coloradodot.info/programs/tetp/construction-inspector-qualification>

12) If there are any web links or electronic files of any studies, analyses or reports please provide. **No**

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Alison Wilson 303 757 9298. Mark Straub 303 757 9595.

FLORIDA

Florida

- 1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

The Department does not have a construction inspector qualification program. However, because FDOT went to a program of accepting contractor's quality control sampling and testing results, the Department implemented a Construction Training Qualification Program (CTQP) whereby contractor, consultant, and FDOT employees engaged in materials sampling and tested are required to be qualified in select subject areas. The decision was made by FDOT to make this a qualification rather than a certification program in order to enable FDOT to regulate poor performers via administrative actions against the qualification.

CTQP offers training/qualifications in aggregates, asphalt, concrete, earthwork, geo-technical, final estimates, structures and QC Manager.

FDOT does require the ACI Certification, but that certification is administered by the American Concrete Institute.

FDOT is governed by the Construction Training Qualification Manual (CTQM) <http://www.dot.state.fl.us/construction/Manuals/ctqm/CTQM.shtm>

A significant part of the CTQP mission includes maintaining an internet accessible database to track all the qualification data related to courses as well as Trainees. This is handled by the CTQP Administrator's website which you are accessing now. This website is designed to support CTQP qualification inquiries from trainees, employers and FDOT management.

Course Materials can be found at: http://www.ctqpfloida.com/books/course_materials.asp

- 2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification? If yes please describe.

Yes, CTQP qualifications and attend the QC Manager Course. Information on the QC Manager course can be found at the course materials link above.

- 3) Does your state have an in-house construction manager qualification program? If yes, please describe.

No, but FDOT does offer a training course called the "Construction Academy." This academy is designed for Project Engineers/Administrators to receive orientation and enhancement in Project Administration skills in managing the Department Construction Projects. This is a two (2) week course instructed by DOT personnel.

- 4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

Yes, under the Department's CTQP.

- a. Does your state provide the training to consultants? If yes, who pays?
Yes, under the Department's CTQP Program, the consultant pays for themselves.

5) For states that do have qualification programs (at either the technician or professional level):

- a. Is the qualification regional (i.e. the same certification for all states in the region)? CTQP is FDOT specific.

- b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?
No, FDOT does not offer reciprocity for CTQP Qualifications.

- c. Do you have different levels of qualification (e.g. Level I, II, and III)?

Yes, as shown below:

Asphalt Paving Level I & II

Asphalt Plant Level I & II

Earthwork Construction Inspection Level I & II

Final Estimates level I & II

- d. Does your state use classroom training, online training, or both?

Yes, FDOT offers classroom and online training. The Department's classroom training is provided by approved Providers. A Provider is an entity that has been reviewed and approved by the Department, which has a staff of trained Instructor(s) qualified in and knowledgeable in the course subject, a staff of examination proctors who are knowledgeable of and practice the Department's proctoring rules and have access to the facilities required to present the CTQP courses it is approved to offer.

Online Training:

<http://fdotconstruction.redvector.com/LMS20/DirectEnroll/Account/Order/ShopCart/CourseCatalog.aspx>

<u>Course #</u>	<u>Catalog Item</u>
FDOT-AP1	Asphalt Paving Level 1
FDOT-AP2	Asphalt Paving Level 2
FDOT-AugP	Augercast Pile
FDOT-CFI	Concrete Field Inspector Specifications
FDOT-CLT	Concrete Lab Technician Specifications
FDOT-ECI1	Earthwork Construction Inspection Level 1

FDOT-ECI2	Earthwork Construction Inspection Level 2
FDOT-FEL1	Final Estimate Level 1
FDOT-MSE	MSE Wall Inspector
FDOT-QCM	Quality Control Manager

- 6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality).

Consultant Scopes of Service define the requirements for staff used on FDOT projects; Construction contract specifications define the requirements for staff used by contractors on FDOT projects. CTQP Qualifications must be renewed every 5 years. ACI Certifications must be renewed every 6 years

- 7) What types of initial construction inspection training do you provide?

FDOT has a Self-Study program which consists of a series of training courses involving the processes associated with highway and bridge construction. The series is intended for engineering technicians, both Department and non-Department personnel, that are involved in the various disciplines of construction inspection and reporting.

Self-Study courses are self paced and exams are administered through the District Offices by the District Construction Training Administrators (DCTA)

- | | |
|---------------------------------------|-----------------------------------------------|
| 1. Construction Math | 2. Construction Plans Reading |
| 3. Pipe Placement | 4. Portland Cement Concrete Testing |
| 5. Hot Mix Asphalt Paving Inspection | 6. Hot Mix Asphalt Plant Inspection |
| 7. Hot Mix Asphalt Testing Inspection | 8. Structures I |
| 9. Structures II | 10. Utility Relocation, Clearing and Grubbing |
| 11. Earthwork/Density | 12. Subgrade and Base |
| 13. Landscape Inspection | 14. OSHA Awareness Training |

FDOT also offers 4 tutorial programs

Grouting of Bridge Post-Tensioning Tendons: This tutorial is in the form of a video (approximately 45 minutes) with corresponding hard copy training manual (in color) both of which can be obtained from the FDOT District Construction Training Engineer for CEI personnel, or from the FDOT Maps and Publications office (Video - \$3.75, Manual - \$7.50). The manual may also be viewed or printed off directly from the internet by clicking here. [Grouting Manual](#) (PDF File, 1453kb)

Driven Pile Tutorial: The [Driven Pile](#) tutorial must be accessed on the Internet and should take one to four hours to complete depending on the experience level.

Laptop Pile Driving Tutorial: The PDA Pile Driving Tutorial must be downloaded to your local harddrive and will take one to two hours to complete, depending on experience level. Please click the hyperlink above and select the Save option to download the executable file to your computer.

Drilled Shaft Tutorial: The Drilled Shaft tutorial must be accessed on the Internet and should take students from one to four hours to complete depending on experience level.

8) What types of continued construction inspection training do you provide?

FDOT requires updating of the course materials annually and the courses are required to be taken every five years.

9) Has your state developed any online construction inspection training courses and testing? If so, please list/describe.

FDOT does not offer online testing.

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe.

Not to my knowledge

11) If there are web links to training used by your state please provide.

www.ctqpfloida.com

12) If there are any web links or electronic files of any studies, analyses or reports, please provide.

Not to my knowledge

13) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

**FLORIDA DEPARTMENT OF TRANSPORTATION
Construction Training Contacts**

Yvonne Collins

State Construction Training Administrator

605 Suwannee Street, MS 31

Tallahassee, FL 32399-0450

(850) 414-4141; **(850) 412-8021**

yvonne.collins@dot.state.fl.us

Lori Spruce

District 1 Construction Training Admin

Post Office Box 1249

Bartow, FL 33831-1249

(863) 519-2550;

(863) 534-0071

lori.spruce@dot.state.fl.us

Mark W. Toigo

District 2 Construction Training Admin

1109 South Marion Avenue

Lake City, FL 32025-5874

(386) 961-7593

(386) 961-7849

mark.toigo@dot.state.fl.us

Eddy Wilson

District 3 Construction Training Admin

Post Office Box 607

Chipley, FL 32428-9990

(850) 638-0250 ext. 259

(850) 638-6154

eddy.wilson@dot.state.fl.us

Henry Pico

District 4 Construction Training Admin

3400 Commercial Boulevard

Ft. Lauderdale, FL 33309-3421

(954) 777-4381

(954) 777-4149

henry.pico@dot.state.fl.us

Chad Tavares

District 5 Construction Training Admin

719 S. Woodland Blvd., MS 3-506

Deland, FL 32720-6834

(386) 943-5387

(386) 943-5716

chad.tavares@dot.state.fl.us

Max Pearlstein

District 6 Construction Training Admin

1000 N. W. 111th Avenue

Miami, FL 33172-5802

(305) 499-2356

(305) 499-2351

max.pearlstein@dot.state.fl.us

Shirley Knapp

District 7 Construction Training Admin

11201 North McKinley Dr., MS 7-1100

Tampa, FL 33612-6465

(813) 975-6285 **(1-800-226-7220)**

(813) 975-6278

shirley.knapp@dot.state.fl.us

Ken Cox

Materials Office Training Admin

5007 NE 39th Avenue

Gainesville, FL 33609

(352) 955-6601

kenneth.cox@dot.state.fl.us

Debbie Glatz

District 8 Turnpike Training Admin

Post Office Box 9828

Ft. Lauderdale, FL 33310-9828
(954) 975-4855 ext 1171
(954) 321-5539
debbie.glatz@dot.state.fl.us

List of all Qualifications Offered:

Aggregates

Aggregate Test Technician
Aggregate Base Testing Technician
Qualified Sampler Technician
LBR Technician Training

Asphalt

Asphalt Paving - Level I
Asphalt Paving - Level II
Asphalt Plant - Level I
Asphalt Plant - Level II
Asphalt Mix Designer

Concrete

ACI Concrete Field Testing Technician Level 1&2
ACI Concrete Laboratory Testing Tech - Grade I
FDOT Concrete Field Inspector Specification
FDOT Concrete Lab Technician Specification
Concrete Batch Plant Operator

Earthwork

Earthwork Construction Inspection - Level I
Earthwork Construction Inspection - Level II

Management

QC Manager
Final Estimates - Level I
Final Estimates - Level II

GeoTech

Pile Driving
Drilled Shaft

IDAHO

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

Yes we do. It's described in our Contract Administration Manual in Section 114. The manual may be found on our website.

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe.

We have a Resident Engineer Academy held periodically when needed. It is not necessary to "qualify" as a Resident Engineer

3) Does your state have an in-house construction manager qualification program. If yes, please describe. No.

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe. Yes, see question 1.

a. Does your state provide the training to consultants? If yes, who pays? Yes. Consultant pays.

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)? No

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)? No

c. Do you have different levels of qualification (e.g. Level I, II, III)? No

d. Does your state use classroom training, online training, or both? Classroom training; in some cases an individual may "test out"

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). OJT; yearly "construction refreshers". We are currently reassessing our qualification training.

- 7) What types of initial construction inspection training do you provide? **See question 1.**
- 8) What types of continued construction inspection training do you provide? **Need to periodically requalify. Annual “construction refreshers” in Districts.**
- 9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **N/A**
- 10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No.**
- 11) If there are web links to training used by your state please provide. **N/A**
- 12) If there are any web links or electronic files of any studies, analyses or reports please provide.
See question 1.
- 13) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Fran Hood

Design/Materials/Construction Engineer

Frances.hood@itd.idaho.gov

208-334-8426

GEORGIA

- 1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **NO**
- 2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. **NO**
- 3) Does your state have an in-house construction manager qualification program. If yes, please describe. **NO**
- 4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe. **NO**
 - a. Does your state provide the training to consultants? If yes, who pays? Yes, GDOT pays.
- 5) For states that do have qualification programs (at either the technician or professional lever) :**N.A.**
 - a. Is the qualification regional (i.e. the same certification for all states in the region)?
 - b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?
 - c. Do you have different levels of qualification (e.g. Level I, II, III)?
 - d. Does your state use classroom training, online training, or both?
- 6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **Require the CEI consultant to provide capable staff.**
- 7) What types of initial construction inspection training do you provide? **Erosion Control, Plan reading, Base and Sub base construction, Bridge construction, Asphalt construction, Basic surveying.**
- 8) What types of continued construction inspection training do you provide? **Erosion Control, Bridge Inspection, Asphalt Construction.**
- 9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **NO**
- 10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **NO.**

11) If there are web links to training used by your state please provide.

N.A.

12) If there are any web links or electronic files of any studies, analyses or reports please provide. N.A.

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Thomas Howell, Director of Construction, thowell@dot.ga.gov, 404-631-1970

Marc Mastronardi, State Construction Engineer, mmastronardi@dot.ga.gov, 404-631-1971

NEBRASKA

Nebraska

- 1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **We do have certain training requirements but not a qualification program yet, working toward one**
- 2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. **PE license**
- 3) Does your state have an in-house construction manager qualification program. If yes, please describe. **NO not yet working on one**
- 4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe **No**
 - a. Does your state provide the training to consultants? If yes, who pays?
- 5) For states that do have qualification programs (at either the technician or professional level) :
 - a. Is the qualification regional (i.e. the same certification for all states in the region)?
 - b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?
 - c. Do you have different levels of qualification (e.g. Level I, II, III)?
 - d. Does your state use classroom training, online training, or both?
- 6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **Promote within**
- 7) What types of initial construction inspection training do you provide? **On the job**
- 8) What types of continued construction inspection training do you provide?
- 9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe.

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No**

11) If there are web links to training used by your state please provide.

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Nevada

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **No. Construction Materials Testers are required to be NAQTC/WAQTC certified.**

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. **Not for Resident Engineers.**

3) Does your state have an in-house construction manager qualification program. If yes, please describe. **We do training but do not call it a qualification program. Consultant REs are required to attend our 1 week RE Academy before they can administer contracts.**

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe **Consultant Construction Materials Testers are required to be NAQTC/WAQTC certified.**

- a. Does your state provide the training to consultants? **Yes in some instances. Consultant REs are required to attend our 1 week RE Academy before they can administer contracts. Our one week construction documentation training (Office School) is open to consultants. We haven't really opened other training classes (asphalt inspection, concrete inspection, general inspection, and testing school) to consultants yet but are looking into it.**

If yes, who pays? **No fees are charged to attend training. Consultants are responsible for salaries, travel, etc...**

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)? **We do accept WAQTC certification for Testers**

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)? **We do accept WAQTC certification for Testers**

c. Do you have different levels of qualification (e.g. Level I, II, III)? **No.**

d. Does your state use classroom training, online training, or both? **Classroom**

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **I don't know if I would call what we do a "strategy." We provide training annually. RE's are responsible to ensure staff is trained.**

7) What types of initial construction inspection training do you

provide?

Annual Training
Resident Engineer Academy – 1 Week
Documentation Training (Office School) – 1 week
Asphalt Inspection - 1 week
Concrete Inspection – 1 to 2 weeks
General Inspection – 1 week
Testing School – 6 weeks

8) What types of continued construction inspection training do you provide? **We do not provide or require what I would call continuing education for inspectors. Testers are required to maintain NAQTC/WAQTC certification. We encourage field staff to attend training on a recurring basis and use at least every 5 years as a guideline. There currently is no internal requirement for continuing education.**

9) Has your state developed any online construction inspection training courses and testing. **No** If so, please list/describe.

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No.**

11) If there are web links to training used by your state please provide.

No external links. You can view our Manuals, forms, etc.. at.

http://www.nevadadot.com/About_NDOT/NDOT_Divisions/Operations/Construction/Construction_Division.aspx

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Jeff Shapiro, P.E.

Chief Construction Engineer | Nevada Department of Transportation

1263 South Stewart Street, Carson City, Nevada 89712

(775) 888-7065 phone | (775) 443-7726 cell | (775) 888-7210 fax

(775)302-9737 iPad txt

jshapiro@dot.state.nv.us | www.nevadadot.com

Steven L. Hale, P.E.

Quality Assurance Engineer

Construction Division

Nevada Department of Transportation

(775) 888-7226

shale@dot.state.nv.us

NEW YORK

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

we have certification requirements for consultant firm staff and do in-house training for DOT staff.

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe.

No.

3) Does your state have an in-house construction manager qualification program. If yes, please describe.

We have what we call engineer-in –charge training, which is equivalent.

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

NICET certifications.

a. Does your state provide the training to consultants? If yes, who pays?
Not under routine circumstances.

5) For states that do have qualification programs (at either the technician or professional lever) :

a. Is the qualification regional (i.e. the same certification for all states in the region)?

Don't know.

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?

No.

c. Do you have different levels of qualification (e.g. Level I, II, III)?

Yes, as per NICET; this is for consultant firm staff only.

d. Does your state use classroom training, online training, or both?

Both.

6) What strategies does your state use to assure adequately

trained construction inspection staff to ensure contractor construction workmanship/quality). See above.

7) What types of initial construction inspection training do you provide? **On the job training in various aspects.**

8) What types of continued construction inspection training do you provide? **Same as 7, with in-house training courses during off-season.**

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **No.**

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe.

We use construction staffing patterns, based on project size and type of work.

11) If there are web links to training used by your state please provide.

None.

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

None.

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Chris Crachi; 518-574-6472.

OKLAHOMA

Oklahoma

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

no. we only have a certification program established for highway material testing technicians.

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe.

No.

3) Does your state have an in-house construction manager qualification program. If yes, please describe.

No.

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

No.

a. Does your state provide the training to consultants? If yes, who pays?

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)? N/A

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)? N/A

c. Do you have different levels of qualification (e.g. Level I, II, III)? N/A

d. Does your state use classroom training, online training, or both? N/A

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality).

Periodic reviews of performance as described in the Construction Control Directive found at the following link: http://www.okladot.state.ok.us/c_manuals/ccdirectives/con_ccd_20100720.pdf

7) What types of initial construction inspection training do you provide?

SiteManager training. Material sampling & testing. Inspector training courses.

8) What types of continued construction inspection training do you provide?

Construction Manual is under development. Conduct periodic training for Resident Engineers and their staff on an as needed basis.

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe.

No.

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe.

No.

11) If there are web links to training used by your state please provide. N/A

12) If there are any web links or electronic files of any studies, analyses or reports please provide. N/A

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

George T. Raymond, P.E.
State Construction Engineer
Oklahoma DOT - Construction Division
200 N.E. 21st Street
Oklahoma City, OK 73105-3204
(405)521-2561,
graymond@odot.org

OREGON

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

Oregon has an inspector certification program. Inspectors are required to pass a written test to become certified in various aspects of inspection work. Certification is available in the following areas: General Inspector, Drilled Shaft/Driven Pile Inspector, Bridge Inspector, Traffic Signal Inspector, Erosion Control Inspector, Hot mix asphalt inspection, Structural Coatings inspector.

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. No certification required, we put on annual training for our Project Managers.

3) Does your state have an in-house construction manager qualification program. If yes, please describe. No

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

Yes, we require the consultant inspectors to be certified in the areas described in #1 above.

a. Does your state provide the training to consultants? If yes, who pays? We make training available, anyone sending staff to the training is responsible to cover the costs. Consultants are not required to attend our training, they can simply take and pass the exam to become certified.

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)? No, Oregon specific. Certification exams cover Oregon specifications.

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)? No.

c. Do you have different levels of qualification (e.g. Level I, II, III)? No

d. Does your state use classroom training, online training, or both? Classroom or self study is allowed. We do not require attendance of training, only passing the exam.

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). See certification program described above.

7) What types of initial construction inspection training do you

provide? **Our General Inspector training covers the basics of inspection.**

8) What types of continued construction inspection training do you provide? **See certification program described in #1 above.**

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. Not at this time. **We hope to have some in the near future.**

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No**

11) If there are web links to training used by your state please provide. **NA**

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Cole Mullis, Quality Assurance Engineer

503-986-3061

Cole.f.mullis@odot.state.or.us

PENNSYLVANIA

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

Yes, we utilize a Construction Inspection Required Qualification Chart that is used by our Engineering Consultant Firms to align inspection personnel in their proper classification. The Chart identifies required years experience and types/levels of certifications needed to be classified as a TA (Technical Assistant), TCI (Transportation Construction Inspector), TCI-S (Transportation Construction Inspector Supervisor), TCM (Transportation Construction Manager). [See Attached Qualification Chart]

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe.

No

3) Does your state have an in-house construction manager qualification program? If yes, please describe.

No

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

Yes, The consultant construction inspection staff is required to successfully complete and retain certifications in NECEPT Bituminous HMA Technician Certification Program (Publication 351), Concrete Technician Certification Program (Publication 536), and NICET Highway Construction Certification Program. [See below hyperlinks: Pub 351, Pub 536, NICET Highway Construction Certification]

<ftp://ftp.dot.state.pa.us/public/PubsForms/Publications/PUB%20351.pdf>

<ftp://ftp.dot.state.pa.us/public/PubsForms/Publications/PUB%20536.pdf>

<http://www.nicet.org/candidates/programs/highwayconstruction.cfm>

a. Does your state provide the training to consultants? If yes, who pays?

Yes, Consultant Engineering Firms are responsible for registration fee, lodging, travel etc... of their employees attending.

5) For states that do have qualification programs (at either the technician or professional lever) :

Technician Certification Program.

a. Is the qualification regional (i.e. the same certification for all states in the region)?

Pennsylvania Program ONLY.

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?

NONE.

c. Do you have different levels of qualification (e.g. Level I, II, III)?

Yes, see attached qualification chart

d. Does your state use classroom training, online training, or both?

Pennsylvania utilizes both classroom and online training.

We recently released six online training modules on our Training Calendar website and are in the development stage of six additional online training modules.

Once you enter the website below type in TCI in the course search box.

http://www.dotdom1.state.pa.us/ECMS/ECMS_Training_Calendar.nsf

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality).

Consultant construction inspection staff is required to have specific certifications and skill sets along with documented years of construction experience in order to be assigned to a projects.

We provide training opportunities through the year and each Engineering District Office conducts a Construction Winter School Training Session that cover a variety of construction inspection topics along with updates to specification changes and best practices/lessons learned from the previous construction season.

All qualifications for inspectors must be reviewed and approved by PennDOT prior to the inspectors being added to a projects.

7) What types of initial construction inspection training do you provide?

Mentoring from Inspector-In-Charge and other project staff.

Once you enter the website below type in TCI in the course search box.

http://www.dotdom1.state.pa.us/ECMS/ECMS_Training_Calendar.nsf

8) What types of continued construction inspection training do you provide?

Our Engineering Districts provide Construction Winter School sessions as stated in answer to question #6. Central Office also conducts year around training/workshop sessions on construction & design related topics. These training sessions are available to our business partners (consultants/contractors) along with our Department staff.

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe.

Once you enter the website below type in TCI in the course search box.

http://www.dotdom1.state.pa.us/ECMS/ECMS_Training_Calendar.nsf

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe.

No.

11) If there are web links to training used by your state please provide.

http://www.dotdom1.state.pa.us/ECMS/ECMS_Training_Calendar.nsf

<ftp://ftp.dot.state.pa.us/public/PubsForms/Publications/PUB%20351.pdf>

<ftp://ftp.dot.state.pa.us/public/PubsForms/Publications/PUB%20536.pdf>

<http://www.nicet.org/candidates/programs/highwayconstruction.cfm>

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

13) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Frank Pikitus
Construction Services Manager
Office Phone – 717-787-3731

fpikitus@pa.gov

TENNESSEE

1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.).

Tennessee DOT (TDOT) does not have a construction inspector qualification program. TDOT does have technician certification courses available for inspector staff. A list of these courses can be found on the website below:

<http://www.tdot.state.tn.us/materials/fieldops/training/default.htm>

2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe.

TDOT does not require field staff to obtain a Construction Manager certification.

3) Does your state have an in-house construction manager qualification program. If yes, please describe.

TDOT does not have an in-house Construction Manager qualification program.

4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe

TDOT does require CEI consultants to be certified for certain types of inspection work. For example, on paving projects, inspectors must have the Hot Mix Asphalt Roadway Certification. Another example is that on projects using concrete, inspectors must have the Concrete Field Technician Certification.

b. Does your state provide the training to consultants? If yes, who pays?

The consultant is responsible for signing up for the courses and for providing the registration payment.

5) For states that do have qualification programs (at either the technician or professional level) :

a. Is the qualification regional (i.e. the same certification for all states in the region)?

N/A

b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)?

No, with possibly the exception of ACI courses.

c. Do you have different levels of qualification (e.g. Level I, II, III)?

Yes for concrete testing certification (ACI Level I, ACI Level II, etc).

d. Does your state use classroom training, online training, or both?

Classroom training.

6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality).

TDOT offers several field technician courses as shown at the following website:

<http://www.tdot.state.tn.us/materials/fieldops/training/default.htm>

7) What types of initial construction inspection training do you provide?

TDOT has offered in the past several inspection training courses such as: Structures Inspection, Surveying, math courses (Geometry, fractions), Plans Reading. It is my understanding that these courses have not been offered in the last several years due to hiring freezes.

8) What types of continued construction inspection training do you provide?

Recertification courses are available (for example, asphalt and concrete)

9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe.

No courses are offered online.

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe.

TDOT has not conducted any research or studies in how to effectively and economically use construction inspection staff.

11) If there are web links to training used by your state please provide.

<http://www.tdot.state.tn.us/materials/fieldops/training/default.htm>

12) If there are any web links or electronic files of any studies, analyses or reports please provide.

N/A

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Jerry Hatcher

Assistant Director – Construction Division

Jerry.hatcher@tn.gov

615-741-2414

Heather Hall

Assistant Director – Materials and Tests Division

Heather.purdy.hall@tn.gov
615-350-4104

WYOMING

- 1) Do you have a construction inspector qualification program? If yes, please describe (e.g. what do they have to be certified in; are there different levels of certifications, etc.). **Material testers need to be certified**
- 2) Do you require other construction staff (e.g. Resident Engineers) to obtain any type of construction manager qualification. If yes please describe. **If anybody tests materials on a project they must be certified, otherwise no.**
- 3) Does your state have an in-house construction manager qualification program. If yes, please describe. **No**
- 4) Do you require your CE& I consultants and their staff to be Qualified through the state's program? If yes, please describe **Material testers only**
 - a. Does your state provide the training to consultants? If yes, who pays?
State provides material testing training through Technology Transfer program. Industry & consultants pay for their own people.
- 5) For states that do have qualification programs (at either the technician or professional level) :
 - a. Is the qualification regional (i.e. the same certification for all states in the region)? **No**
 - b. Do you have reciprocity arrangements with other states (i.e. you accept other states' qualifications as comparable to your state)? **No**
 - c. Do you have different levels of qualification (e.g. Level I, II, III)? **No**
 - d. Does your state use classroom training, online training, or both?
Classroom only
- 6) What strategies does your state use to assure adequately trained construction inspection staff to ensure contractor construction workmanship/quality). **State provides in house training courses depending on needs.**
- 7) What types of initial construction inspection training do you provide? **Hot plant mix inspection, concrete inspection, earthwork, approach slabs, pipes. Etc.**
- 8) What types of continued construction inspection training do you provide? **Hot plant mix inspection, concrete inspection, earthwork, approach slabs, pipes. Etc.**
- 9) Has your state developed any online construction inspection training courses and testing. If so, please list/describe. **Not at this time**

10) Has your state conducted any analysis, research or studies in how to effectively and economically use construction inspection staff? If yes, please describe. **No**

11) If there are web links to training used by your state please provide. **No**

12) If there are any web links or electronic files of any studies, analyses or reports please provide. **No**

12) Please provide contact names, telephone numbers and email addresses of individuals in your organization that may provide further assistance.

Andy Long

State Construction Engineer

307-777-4425

Andy.Long@wyo.gov

