



OHIO DEPARTMENT OF TRANSPORTATION

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Certification for Compaction Testing

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ODOT Certification of Compaction Testing Technicians

- What is it?
- Why are we doing it?
- Who are we certifying?
- How are we going to do it?
- When does it take effect?



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Subject to change



What is the certification?

Test of ...

- Technicians knowledge of ODOT compaction testing procedures
- Accuracy of nuclear density gauge



Why another certification?

1. ODOT is moving towards more consultant construction inspection and testing.
2. Existing NICET requirement does not address ODOT specific requirements.



Who are we certifying?

1. Compaction testing technicians working under contract directly for ODOT District
2. Compaction testing technicians working for the contractor under SS 878 or SS 879



How will it work?

Certify ...

- Compaction testing technician
 - Written test and practical exam

- Nuclear density gage



Written Test

Test knowledge of ODOT
compaction testing procedures

- Supplement 1015 “Compaction Testing of Unbound Materials”
- Referenced AASHTO procedures
- Acceptance criteria in C&MS



Written Test covers ...

- Definitions
- Test procedures and calculations
- When to use direct transmission versus backscatter
- When to use a one-point Proctor versus a test section
- How to perform an aggregate correction
- How to perform a test section, Method A
- Acceptance criteria in C&MS 203, 204 and 304 for compaction testing
- Compaction testing procedures for shale



Practical Exam

- Perform compaction test on fine-grained soil with one-point Proctor for maximum dry density
also
- Operation of nuclear density gage



Nuclear Density Gauge

Compare to ODOT calibrated gauge

- Density $\pm 1.0 \text{ lb/ft}^3$
- Moisture content $\pm 1.2 \%$



When?

Currently running trials of certification process

- 5 consulting companies, 9 technicians
- ODOT personnel



When?

Expect to require the certification with the 2013 edition of the C&MS

- So expect projects with the requirement to start in the summer of 2013.

Expect to begin process in Fall



Renewals?

Yes

(Don't know more than that.)



Questions?

