

TABLE 1. Sampling and Testing Personnel Qualifications (Continued)

AASTHO Test Designation	ASTM Test Designation	CDOT Test Designation	Test Description	ACI Concrete Field Testing Technician Grade I	ACI Aggregate Testing Technician - Level 1	ACI Aggregate Testing Technician - Level 2	ACI Concrete Lab. Testing Tech. Grade I (G) - Level 1 (L) – Both (B)	ACI Concrete Lab. Testing Tech. Grade II (G) - Level 2 (L) – Both (B)	ACI Concrete Strength Testing Technician	ACI Aggregate Base Testing Technician	WQATC Embankment & Base Excavation & Embankment – Soils Inspector	LABCAT A	LABCAT B	LABCAT C	LABCAT E
	C 231		Air Content of Freshly Mixed Concrete by Pressure Method	X											
	C 31		Making and Curing Concrete Test Specimens in the Field	X											
	C 42		Obtaining and Testing Drilled Cores and Sawed Beams					B							
	C 78		Flexural Strength of Concrete (Using Simple Method with Third-Point Loading)				L	G	X						
T 224		CP-23	Correction for Coarse Particles in the Soil Compaction Test								X				
T 310		CP 80	In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)								X				
T 89			Determining the Liquid Limits of Soils							X	X				
T 90			Determining the Plastic Limit and Plasticity Index of Soils							X	X				
T 99 T 180			Moisture Density Relations of Soils							X	X				

New testers not qualified may conduct tests on CDOT projects under the direct, day- to-day, supervision of person that is qualified to conduct those tests. The qualified supervisor shall train the new tester, if needed, and then confirm in writing that this person is capable of performing the tests in accordance with the standards. The close day-to-day supervision shall continue until the new tester is qualified.

Asphalt:

The asphalt certification process for testers on CDOT projects is administered through the Colorado Asphalt Pavement Association (CAPA) for the following categories:

- Level A- Laydown
- Level B- Asphalt Plant Materials Control
- Level C- Mixture Volumetrics and Stability
- Level E- Aggregates

The training schedule and registration along with more information about CAPA can be found by clicking on the link. <http://co-asphalt.com/education/certification.htm>

Concrete:

The concrete certification process for testers on CDOT projects is through the American Concrete Institute and is administered by the Colorado Ready Mixed Concrete Association (CRMCA) for the following categories:

- ACI Field Testing Technician Grade 1
- ACI Aggregate Testing Technician - Level 1
- ACI Aggregate Testing Technician - Level 2
- ACI Laboratory Testing Technician Grade I Level 1
- ACI Laboratory Testing Technician Grade II Level 2
- ACI Concrete Strength Testing Technician

The training schedule and registration along with more information about CRMCA can be found by clicking on the link. <http://crmca.org>

Soils and Embankment:

The soils and embankment certification process is through the Western Alliance for Quality Transportation Construction (WAQTC) and is administered by Ground Engineering for the required tests. The WAQTC training schedule and registration information can be found by clicking on the link <http://www.groundeng.com/waqtc/index.php>.

More information about WAQTC can be found at www.waqtc.org.

Please note: To operate a nuclear gauge in Colorado, the tester must be certified as required from their company's Radioactive Materials License, issued by the Colorado Department of Public Health and Environment.