AASHTO T 99

Moisture-Density Relations of Soils Using a 5.5 lb (2.5 kg) Rammer and a 12 in (305 mm) Drop

AASHTO T 99, Method A, has been adopted by WSDOT.

Tester Qualification Practical Exam Checklist

Moisture-Density Relations of Soils Using a 5.5 lb (2.5 kg) Rammer and a 12 in (305 mm) Drop
FOP for AASHTO T 99

Participant Name _____ Exam Date _____

Procedure Element	Yes	No
1. The tester has a copy of the current procedure on hand?	❒	❒
2. All equipment is functioning according to the test procedure, and if required, has the current calibration/verification tags present?	❒	❒
Sample Preparation		
1. If damp, sample dried in air or drying apparatus, not exceeding 140°F (60°C)?	❒	❒
2. Sample pulverized and adequate amount sieved over the No. 4 (4.75 mm) sieve?	❒	❒
3. Material retained on the sieve discarded?	❒	❒
4. Sample passing the sieve has appropriate mass?	❒	❒
Procedure		
1. Sample mixed with water to approximately 4 percent below expected optimum moisture content?	❒	❒
2. Layer of soil placed in mold with collar attached?	❒	❒
3. Mold placed on rigid and stable foundation?	❒	❒
4. Lightly tamp soil in mold?	❒	❒
5. Soil compacted with 25 blows?	❒	❒
6. Scrape sides of mold and evenly distributed on top of the layer?	❒	❒
7. Soil placed and compacted in three equal layers?	❒	❒
8. No more than ½ inch of soil above the top of the bottom portion of the mold?	❒	❒
9. Collar removed and soil trimmed to top of mold with straightedge?	❒	❒
10. Mass of mold and contents determined to appropriate precision?	❒	❒
11. Wet mass of specimen multiplied by mold factor to obtain wet density?	❒	❒
12. Soil removed from mold using sample extruder when applicable?	❒	❒
13. Soil sliced vertically through center?	❒	❒
14. Moisture sample removed from the entire face of one of the cut faces?	❒	❒
15. Sample weighed immediately and mass recorded?	❒	❒

16. Moisture sample mass per Table 1? ❒ ❒
17. Sample dried and water content determined according to AASHTO T 255 or T 265? ❒ ❒
18. Remainder of material from mold broken up to about passing sieve size and added to remainder of original test sample? ❒ ❒
19. Water added to increase moisture content in approximately 2 percent increments? ❒ ❒
20. Steps 2 through 15 repeated for each increment of water added? ❒ ❒
21. If soil is plastic (clay types):
    a. Sample mixed with water varying moisture content by approximately 2 percent, bracketing the optimum moisture content? ❒ ❒
    b. Samples placed in covered containers and allowed to stand for at least 12 hours ❒ ❒
22. Process continued until wet density either decreases or stabilizes? ❒ ❒
23. Water content and dry density calculated for each sample? ❒ ❒
24. All calculations performed correctly? ❒ ❒

First Attempt: Pass ❒ Fail ❒ Second Attempt: Pass ❒ Fail ❒

Signature of Examiner _____

Comments: