

SYLLABUS FOR TRADE TEST (SKILL TEST) FOR THE POST OF TECHNICIAN CIVIL ENGINEERING

List of soil laboratory tests:

- 1 Particle size distribution (Sieve Analysis)
- 2 Water content determination
- 3 Specific gravity of soil
- 4 Field density a) core cutter method and b) sand replacement method
- 5 Atterberg Limits a) liquid limit b) plastic limit and c) shrinkage limit
- 6 Standard proctor compaction test
- 7 Direct shear test

List of highway laboratory tests:

1. Tests on Bitumen:
 - Penetration Test
 - Ductility Test
 - Softening Point Test
2. Test on Bituminous Mixes
3. Bitumen Content Determination
4. Tests on Aggregate
 - Aggregate Impact Value Test
5. Stripping Test
6. Tests on Sub-grade
7. CBR Test

List of concrete laboratory tests:

1. Tests on cement
 - Normal Consistency
 - Initial setting time of cement
 - Blaine's Air permeability test
2. Aggregate crushing value test
3. Aggregate abrasion test
4. Gradation of fine and coarse aggregate
5. Specific Gravity of fine and coarse aggregate
6. Bulk density of fine and coarse aggregate
7. Silt content and bulking of sand