

Quality Control Tests & Hands on Practices

Day 1	
9:45-13:00	Quality Control Tests on Soil <ul style="list-style-type: none">➤ Sieve Analysis➤ Modified Proctor Test➤ Liquid Limit & Plastic Limit➤ Field Density➤ CBR➤ DCP➤ Unconfined Compressive Strength(UCS)➤ Permeability Test
14:00-17:00	
Day 2	
9:45-15:30	Quality Control Tests on Aggregates <ul style="list-style-type: none">➤ Sieve Analysis➤ Los Angeles Abrasion Value➤ AIV➤ Flakiness and Elongation Index➤ Water Absorption➤ Soundness➤ Specific Gravity➤ Stripping Test
15:45-17:15	Quality Control Tests on Bitumen <ul style="list-style-type: none">➤ Penetration➤ Ductility➤ Viscosity➤ Softening Point➤ Elastic Recovery➤ Flash & Fire point➤ Residue by Evaporation Of Emulsion
Day 3	
9:45-11.15	Quality Control Tests on Bitumen Contd.
11:30-17:15	Bituminous Mix Design & Tests <ul style="list-style-type: none">➤ Marshall Method➤ Stability, Flow➤ Voids in Mineral Aggregate(VMA)➤ Voids filled with bitumen (VFB)➤ Density➤ Optimum Binder Content➤ Bitumen Extraction➤ Core Density of Compacted layers
Day 4	
9:45-11.15	Bituminous Mix Design & Tests Contd.
11:30-15:30	Quality Control Tests on Cement <ul style="list-style-type: none">➤ Consistency➤ Fineness➤ Initial and Final Setting Time➤ Compressive Strength➤ Soundness Test

15:45-17:15	Design of Concrete Mixes& Tests <ul style="list-style-type: none"> ➤ Mix Design (Structural Concrete and Pavement Quality Concrete) ➤ Workability (Slump, Flow Table & Compaction Factor) ➤ Setting Time of Concrete Mixes ➤ Compressive Strength ➤ Flexural Strength
Day 5	
9:45-15.30	Design of Concrete Mixes& Tests contd...
15.45-17.00	Quality Control of Proprietary Items
17.00-17-15	Feedback and Conclusion
