

ARUN SOIL LAB PVT. LTD.

Geo-technical & Material Testing Consultants (for Civil Engineering Projects)
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PRACTICAL TRAINING FOR CIVIL ENGINEERING STUDENTS **BY ARUN SOIL LAB PVT LTD LUCKNOW**

Introduction : The aim of practical training is to help students develop skills & abilities that support professional studies and prepare them for work later on. For the students, practical training provides an opportunity to learn important skills which will help in becoming a professional of the future.

What is practical learning :

By practical learning we mean tasks in which students observe real objects and materials and they see a teacher's live demonstration.

Practical work motivates students and creates interest to work in field.

The practical training offers a variety of benefits to students both for the improving performance while in college and for increasing job opportunities following graduation.

The practical training experience helps students, focus their career choices, job skills and decrease anxiety about the search of their choice.

Gaining practical experience puts education theory into practice and thereby makes it more relevant. Furthermore, real world learning prepares you for further education and better job opportunities.

As Civil engineer, you want your buildings, bridges, dams to stand on solid ground. By understanding various soil properties as well as behavior, you can eventually provide practical and feasible solutions towards various types of foundations. For example by practical training you will know why is clayey soil so important while studying Geotechnical engineering ?

Similarly, we classify a soil, based on their particle size. By practical training of Sieve analysis you will learn how different types of sieves indicate :

- i. The 300mm Sieve, it means the particles diameter is greater than 300mm and it represent 'Boulder'.
- ii. If it passes through 300mm sieve and retained in 75mm sieve then it indicates the particle diameter ranges from 75mm to 300mm which represents 'Cobble'.
- iii. The sieve size which passes 75mm and retained in 19mm, represents that particle diameter ranges from 19 to 75mm, which is Coarse sand.

These things you will learn more while doing the sieve analysis yourself. In the same way, when you do various other tests of cement, Aggregate, Bitumen etc yourself, you will get confidence and enrich yourself with better knowledge of various construction materials.

Now regarding us!

Arun Soil Lab Pvt Ltd is a NABL accredited as per ISO/IES 17025 : 2005. NABL stands for National Accreditation Board for Testing and Calibration Laboratories”

We have an experience of 26 years and provide services in :

- Geotech investigations
- Material testing
 - a) Soil
 - b) Bricks
 - c) Cement
 - d) Aggregate
 - e) Bitumen
 - f) Reinforcement bars
- Compressive strength test of concrete cubes & paver blocks
- Plate load test
- Electrical resistivity test
- Concrete Mix Proportioning
- Bituminous Mix Proportioning
- Topographical Survey
- Non Destructive testing
 - a) Rebound Hammer
 - b) Pile Integrity
- All tests are performed as per specified Indian Standard Code and we submit our test reports to clients in Autocad format.

Now we come to Training Syllabus of Civil Engineering.

The various tests which you will learn, are :

(A) Cement

1. Consistency
2. Setting time
3. Compressive strength
4. Fineness

(B) Coarse aggregate & fine aggregate

1. Crushing value
2. Impact value
3. Los Angeles abrasion value
4. Flakiness index & elongation index
5. Water absorption
6. Silt content
7. Bulking of sand

(C) Bitumen

1. Penetration test
2. Softening point
3. Stripping value
4. Ductility
5. Flash & fire point

(D) Geotechnical Engineering

1. Method of boring & sample collection
2. Sieve analysis
3. Hydrometer analysis
4. Attenberg limit
5. Shrinkage limit
6. Density and moisture content
7. Specific gravity
8. Direct shear test
9. Tri- axial shear test
10. Consolidation test
11. OMC (Optimum Moisture Content) & MDD (Max Dry Density)
12. Permeability
13. Insitu density (Core cutter and sand replacement method)

Training Programme :

We cover the training in our 2 Labs which are located in E 11, First floor, Lekhraj Market-1, Indira Nagar and 636/110, Budh Vihar, Takrohi (near Ambedkar Chauraha), Indira Nagar, Lucknow-227105.

Time period is 2 PM to 6 PM and for four weeks excluding Sunday.

You will see some photographs of students undergoing the practical training in our Lab and Certificates issued to them.

Fees : For students, Fees is very nominal and affordable by all.

For any query please contact at : 9415501638, 8924929186

OR

SEND YOUR QUERY BY USING OUR WEBSITE HOME PAGE 'Training' OPTION WHICH IS SHOWN ON MENU