

# MECHANICAL TESTING TRAINING PROGRAM



Spectro Analytical Labs provides an excellent platform for training in Mechanical Testing. Spectro has devoted itself in providing a workshop with modernized machines for preparing precise test specimens which is immensely crucial step in complete assessment of a sample for its mechanical properties. We are well equipped with all the required instruments used for testing in this field.

## **Objective of the Training:**

The program is well designed for those who have a background in mechanics and wants to inculcate a thorough knowledge about the testing methods and instruments used in this field. The test specimens are prepared for metallic as well as non metallic materials as per the relevant National and International Protocols like ASTM, IS, BS, etc. The specimens are categorized as the specialized engineering component which undergoes a known stress or strain state for inspecting its properties.

## **6 days Training Module:**

Day 1: Complete description of material to be tested in laboratory with its properties and application.

Day 2: Testing principle and procedure of testing and general information of instruments used.

Day 3: Bend test, Hardness test, Hydrostatic test, Flaring test, Flattening test and Hands-on instruments used for their testing like Hardness Tester, UTM machine, Tensile Testing Machine, etc.

Day 4: Impact Test (Charpy), Impact Test (Izod) and hands-on instruments like Impact Tester for both Charpy and Izod.

Day 5: Micro hardness test, Proof load test, Shear test, Torsion test and hands-on instruments used for their testing like Micro Hardness Tester, Torsion Testing Machine.

Day 6: Tensile testing, Re-bend test, Mercurous Nitrate test, Permanent set test and hands-on instruments like Profile Projector, Coating Thickness Tester, etc.

## **Minimum Eligibility Required:**

The trainee must possess a Diploma or Degree in any Science field or must be pursuing the same.

## **Benefits of the Training:**

The training is beneficial for those individuals who are willing to enter the industries which are related to mechanical field like automobile industries, military, research and development and many others. Here the trainee will get a full knowledge on all the tests as well as hands-on practice on the instruments related to it.

## **Please Note:**

- We also conduct customized training programs on request.
- The certificate will be provided only after clearing a test.



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