

Analytical Instruments Testing Series

TRAINING ON ICP-MS AND ICP-OES



Spectro provides an excellent platform for training on Inductively Coupled Plasma-Optical Emission Spectroscopy as well as Mass Spectrometry (ICP-OES/ICP-MS). This program is designed for those who want to acquire theoretical as well as practical knowledge of aspects of method development, sample handling, sample preparation, operating, applications and the technology being used.

Objective of the Training

The training is carried out in two sections theoretical and practical. Under theoretical sections the trainee is provided with complete knowledge of basic principles of ICP-OES/MS, system hardware, set up and operation. Optimization of operating parameters, analysis protocols, considerations and maintenance of the instrument is explained thoroughly. While under the practical section we provide a complete hands-on experience on the instruments ICP-MS (Agilent Technologies, 7700 series, G5700A) and ICP-OES (Varian Vista-MPX).



Training Module for 6 Days

Day 1

Introduction, Fundamentals and Applications of ICP-OES/MS, software familiarization and description of instrument.

Day 2

Components of sample introduction, sample handling, preparation and measurement system hardware overview.

Day 3

System hardware overview, system setup and operation, detection limit determination, system optimization and background correction.

Day 4

Internal Standards, analysis protocols and consideration, sample analysis using methods of standard additions.

Day 5

Physical and spectral interferences (Inter element) and system maintenance.

Day 6

Calculation and reporting data, conclusion and generating discussion.



Minimum Eligibility Required:

The trainee must possess a graduation degree in science field or must be pursuing the same.

Benefits of the Training:

The training is beneficial for the people who are willing to enter in industries which relates to metals, trace metals analysis, food products, motor oil, mineral processing and many more.

Please Note:

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



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