

Day wise structure of the training:

**6 days Training Program:**

**Day 1:** 10.00 - 10.30 Introductions about company and students

10.30 - 11.30 Basic Theory on EM

11.30 - 11.45 Break

11.45 - 01.30 Advances in EM

01.30 - 02.30 Lunch

02.30 - 03.30 Advantages of using SEM over Optical Microscope

03.30 - 03.45 Break

03.45 - 05.00 Basic theory involved in SEM

**Day 2:** 10.00 - 11.30 a. Types of Analysis in SEM

b. Different types of specimen interactions with SEM

c. Steps involved in Sample preparation

11.30 - 11.45 Break

11.45 - 01.00 Sample Preparation Techniques

01.30 - 02.30 Lunch

02.30 - 03.45 Demo on Instrument Hitachi SEM Model SU-1500

03.45 - 04.00 Break

04.00 - 05.00 continuation

**Day 3:** 10.00 - 11.30 on hand efforts for sample preparation by participants

11.30 - 11.45 Break

11.45 - 01.30 Hands on Practice

01.30 - 02.30 Lunch

02.30 - 03.30 Test

02.30 - 03.45 Break

03.45 - 05.00 Test

**Day 4:** 10.00 - 11.30 Theory on EDS overview

11.30 - 11.45 Break

11.45 - 01.30 sample Preparation Techniques

01.30 - 02.30 Lunch

02.30 - 03.30 Hands on Practice

02.30 - 03.45 Break

03.45 - 05.00 Continuation hands on

**Day 5:** 10.00 - 11.30 Basic theory on AFM

11.30 - 11.45 Break

11.45 - 01.30 Theory for operation of AFM

01.30 - 02.30 Lunch

02.30 - 03.30 Sample preparation Techniques

02.30 - 03.45 Break

03.45 - 05.00 tips for getting better image

**Day 6:** 10.00 - 11.30 Hands on practice

11.30 - 11.45 Break

11.45 - 01.30 Hands on Practice

01.30 - 02.30 Lunch

02.30 - 03.30 Practical Test on AFM

02.30 - 03.45 Break

03.45 - 05.00 Certificates on performance of the students in practical test on SEM with EDS & AFM.

Feed back from students.