

This course is aimed at laboratory managers and assistants working on the preparation of metallographic samples prior to examination with an optical microscope or a scanning electron microscope.

- *Length*: 1 day
- *Number of trainees*: A maximum of 3 on LAM PLAN premises
- *Aims* : give a grounding in LAM PLAN preparation techniques
  - Sectioning
  - Embedding
  - Pre-polishing
  - Polishing

Trainees will be provided with all the equipment they will need for the practical work and will also be able to bring their own samples.

## **PROGRAMME**

### **1- EXAMINATION**

- Definition of the examination
- Examination of the structure
- Counting inclusions
- Examination of layer

### **2- CLASSIFICATION OF THE MATERIALS**

- Notion of hardness
- Homogenous materials
- Composite materials
- Sandwich materials

### **3- SECTIONING**

- Choice of sectioning disk
- Faults which can be attributed to poor sectioning

### **4- EMBEDDING**

- Choice of the resin according to the material
- Sample holder

### **5- PRE-POLISHING**

- NEW LAM and Cameo technique

### **6- POLISHING**

- NEW LAM and Cameo technique

The course will include a theoretical session looking at all stages of the preparation process. The second session will include practical work on various significant materials.