



SEM and EDX (Part of Metallurgy Lab)

Mechanical and Production Engineering Department

Ahsanullah University of Science & Technology (AUST)

General Lab Safety Rules

Wear PPE: Lab coat, safety goggles, gloves, and closed-toe shoes are mandatory.

No Unauthorized Entry: Only authorized students and staff are allowed in the lab.

Keep Workspace Clean: Ensure all equipment is stored properly and workspaces are clean after experiments.

No Eating or Drinking: Food and drinks are strictly prohibited to avoid contamination.

Safety Procedures for Specific Equipment

SEM and EDX Equipment: Ensure all samples are prepared as per guidelines and that the equipment is operated under supervision. SEM equipment uses high voltage. Avoid direct contact with any part of the device while it's operational.

Sample Preparation: Handle any chemicals used for sample preparation (e.g., etching agents) with care, following Material Safety Data Sheets (MSDS) guidelines. Familiarize yourself with the operation of vacuum pumps and ensure all seals are secure before starting. Dispose of all chemicals and sample remnants according to lab waste disposal protocols.

Accident and Health Hazard Provisions

First Aid Kit: Familiarize yourself with its location and basic first aid procedures.

Fire Safety: Know the emergency exits and fire alarm locations. Evacuate immediately if a fire cannot be controlled.

Incident Reporting: Report accidents immediately to the lab in-charge. Investigations will be conducted to prevent future incidents

Lab Contact Information

Lab In-Charge: Dr. Md. Shahnewaz Bhuiyan, Chowdhury Ahmed Shahed

Emergency Contact: [LA: 01581161345, AAO: 01534100141]

REMEMBER: Safety First! Always adhere to lab safety protocols.