

Safety Requirements for Melt Processing Laboratories 1 and 2

Laboratory location:

- B1 rooms 116 and 119.

Minimum Entry requirements:

- Minimum entry requirements are enclosed shoes and cotton lab coat or long sleeve cotton drill work shirt or equivalent.

Working in the laboratory requirements:

- A student or researcher working in this area must have
 - received, read and signed off the Materials Engineering Building 1 Laboratories Manual. (Laboratory Safety Guidelines 2005). Sign off sheet is at the front of the manual.
 - received a Melt Processing Laboratory induction from Dr Nightingale or Dr Monaghan. See below for Melt Processing Laboratory induction.
 - received, read and signed off the Melt Processing Laboratory specific instructions. Sign off sheet is at the front of the Materials Engineering Building 1 Laboratories Manual.
 - where appropriate, received training for task to be carried out in laboratory. A note of task the researcher or student is trained for should be added to the sign off sheet.
 - once the student or researcher has completed the above the sign off sheet can be submitted to laboratory supervisor and student/researcher supervisor for signature. A photocopy of this sign off sheet shall be kept as a training record in the Melt Processing Laboratory.
 - a photograph must be submitted to the laboratory supervisors Dr Nightingale or Dr Monaghan for placement on the Authorised User list on lab door.

Laboratory Induction

- The Induction will be carried out by the laboratory supervisor or an appropriate trainer.
- A student or researcher will be
 - given a copy the Materials Engineering Building 1 Laboratories Manual. (Laboratory Safety Guidelines 2005) and Melt Processing Laboratory specific instructions (this document) for reference.
 - informed of the particular hazards associated with the Melt Processing Laboratories (listed below).
 - shown where the emergency equipment, Personal Protective Equipment (PPE) and MSDS's are kept in the laboratory.
 - shown where the laboratory emergency telephone and list of contact phone numbers are located.
 - informed that before any new task can be undertaken, a risk analysis using the University of Wollongong Risk Analysis Form must be completed.

Melt Processing Laboratory Hazards

- High temperatures
- Dust Inhalation
- Corrosive liquids (acids)
- Electrical shock
- Gases (only for some types of experiments)

Appropriate PPE must be worn at all times when carrying out tasks that involve these hazards. Fume extraction and gas detection/alarm systems must be used when fumes or gases are a risk.

Working After Hours

Generally working after hours is not encouraged. Should a student or researcher wish to work after hours they must receive prior permission from their supervisor and the Melt Processing Laboratory Supervisor. It should be noted only activities that have been classified as low risk in a risk analysis can be undertaken after hours.