

SAFETY INFORMATION

NAME OF THE TASK/ACTIVITY	PHILIPS XL30 FEG SCANNING ELECTRON MICROSCOPE	DATE: 10/02/2020
LOCATION	ADELAIDE MICROSCOPY, GEORGE ROGERS LABORATORY, HELEN MAYO NORTH, NB21	Insert photo (Optional)
Residual risk rating	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very High	
Hazards	Contact with electricity or potential for electric shock	

This Safety information should be provided to new users for them to read before undertaking and tasks/activities on the microscope.

Pre-operational checks

YOU MUST NOT USE THIS MACHINE UNTIL YOU HAVE HAD APPROPRIATE TRAINING BY TRAINED ADELAIDE MICROSCOPY STAFF. Unauthorised use may result in damage to the instrument.

Operational checks/steps to complete the activity from start to finish (including transport and waste disposal where relevant)

The Philips XL30 FEG Scanning Electron Microscope (SEM) is a high-voltage, electron-beam instrument that is well-shielded against emission of hazardous radiation and as such poses no radiation safety problems to operators. X-ray emissions are monitored regularly and are well below the acceptable level.

- The only user operable parts on the Philips XL30 FEG Scanning Electron Microscope (SEM) are the specimen stage and chamber, the computer system (mouse and keyboard), stage movement controls and aperture alignment controls.
- There is no risk involved in the operation of these parts. However, misuse of these parts can result in damage to the instrument.
- **All new users must have training and practical demonstration on the operation of the machine from a member of Adelaide Microscopy staff.**
- **Users should operate the instrument in accordance with the manufacturer supplied operating instructions to avoid damage to the instrument.**
- **The user operable parts are all accessible from the operator's console; users of the instrument should not attempt to remove any fixture or panel from the microscope.**
- **Users should not access the rear of the instrument.**
- The safe handling of general laboratory items is detailed in the Adelaide Microscopy laboratory general safety procedures.


On completion of work – steps to make safe (including clean up, any waste disposal & service/maintenance requirements)

Remove all samples from the instrument and the laboratory after imaging.

Emergency and Spill Procedures, Transport or storage requirements (where relevant), First aid/Medical

In the event of an injury, please advise an Adelaide Microscopy staff member and first aid officer for treatment and the local HSW representative to report the incident.

Prepared by

People involved in the drafting of this Safety Information	Ken Neubauer Aoife McFadden		
Person authorising the Safety Information	Name:	Angus Netting	Signature
	Position:	Director, Adelaide Microscopy	

HSW Handbook	Hazard Management	Effective Date:	17 December 2019	Version 3.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	17 December 2022	Page 1 of 2
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			

HSW Handbook	Hazard Management	Effective Date:	17 December 2019	Version 3.0
Authorised by	Chief Operating Officer (University Operations)	Review Date:	17 December 2022	Page 2 of 2
Warning	This process is uncontrolled when printed. The current version of this document is available on the HSW Website.			