

Equipment Training Sheet - FEI Phenom G2 Pro

Name: _____

Position: _____

Department: _____

Phone: _____

e-mail: _____

Director: _____

Staff Initials	Trainee Initials	
		<u>Anyone needing access to MSE equipment needs to contact MSE tech staff:</u> • For initial training • For subsequent usage (will receive equipment card) • <u>All training must be performed by the MSE Tech Staff (Keith, Justin, Ying)</u> No secondary training (no training by fellow group members)
		<u>Review of hazards, controls, personal protective equipment:</u> • High vacuum • Gloves should be worn to minimize oils from hands contaminating chamber • Bring the MSDS for the material to be studied if hazardous • Generates X-rays
		<u>Review of standard operating procedure:</u> • http://www.mse.engin.umich.edu/internal/procedures/phenom-g2-pro • Different imaging/collecting modes: ○ Back-scattered electron (BSE) can turn image A or B • Samples need to be dry before beginning the pumping procedure • Make certain to have the sample at appropriate height for imaging, data collection and to prevent damage to the SEM's center column ○ <u>Position at 2mm (4 notches)</u> for most applications ○ Further away to achieve a very low magnification image and greater depth of field (furthest is 12mm) • Usage time starts at the beginning of the pumping procedure
		<u>Available supplies to help in the procedure:</u> • Tweezers, gloves, spatulas (to minimize sample contamination) • Aluminum sample mounts in two sizes • Copper tape and upon request carbon paste and carbon tabs

Staff Signature/date: _____

Trainee Signature/date: _____