

Equipment Training Sheet – Nikon Optiphot Planar Microscope

Name: _____

Position: _____

Department: _____

Phone: _____

e-mail: _____

Director: _____

Staff Initials	Trainee Initials	
		<p><u>Anyone needing access to MSE equipment needs to contact MSE tech staff:</u></p> <ul style="list-style-type: none"> • For initial training • For subsequent usage (will receive equipment card) • No secondary training of the equipment
		<p><u>Review of hazards, controls, personal protective equipment:</u></p> <ul style="list-style-type: none"> • Gloves may be worn to minimize oils from hands contaminating chamber and samples • Any PPE and precautions should be followed for the specimens • Bring the MSDS for the material to be studied if hazardous • Small risk of pinching due to moving components
		<p><u>Review of standard operating procedure:</u></p> <ul style="list-style-type: none"> • http://www.mse.engin.umich.edu/internal/procedures/nikon-optiphot • Make sure stage is at appropriate height • Start at lowest magnification to get sample in focus then progressively high magnification • Two light sources: reflective and transmission • Three main imaging types: brightfield, darkfield and polar\nomarski • There are several filters to be aware of: GIF (for B\W),diffusers and ND filters • Make sure the field and aperture diaphragms are appropriately set • Gently rotate eyepiece clockwise to transmit light to capturing device • Magnification of 5x, 10x, 40x and 100x (plus approximately 10x multiplier)
		<p><u>Available supplies to help in the procedure:</u></p> <ul style="list-style-type: none"> • Tweezers and spatulas • Gloves • Optical lenses: 5x, 10x, 40x and 100x (upon request) • Aluminum and glass (upon request) slides • Clay and sample press

Staff Signature/date: _____

Trainee Signature/date: _____