

## Daily Schedule - Millennium Multileaf Collimator TM

### Monday

Section Description	Start Time	End Time
Lecture - Course Objectives, Emergency/Safety, MLC History	08:30 am	10:00 am
Break	10:00 am	10:15 am
Lecture - Introduction: H/W System Overview & Detailed Block Diagram	10:15 am	11:45 am
Lunch	11:45 am	1:15 pm
Lab - Hardware Introduction: Component Identification, compatibility and operation.	1:15 pm	2:45 pm
Break	2:45 pm	3:00 pm
Lab (con't) - Repair basics, model differences, update information, service panel operation, motor replacement, leaf removal, and T-Nut replacement.	3:00 pm	4:30 pm

### Tuesday

Section Description	Start Time	End Time
Basics, System Circuits: Controller: CPU Interface MotComm Power Supply	08:30 am	10:00 am
Break	10:00 am	10:15 am
Lecture - MLC Head: Interconnect Power Distribution Transceiver Motor Driver Secondary Feedback.	10:15 am	11:45 am
Lunch	11:45 am	1:15 pm
MLC Head: Optics IR Optical Beam Calibration techniques and cautions	1:15 pm	2:45 pm
Break	2:45 pm	3:00 pm
Lab - Mechanical Calibration, version differences, Autocycle Routine	3:00 pm	4:30 pm

### Wednesday

Section Description	Start Time	End Time
Lab - System Software: Controller files, VxWorks booting, VxWorks Commands, Controller Software versions and operation. Diagnostic commands.	08:30 am	10:00 am
Break	10:00 am	10:15 am
Lab (con't.) - Diagnostic commands with version 6.8 and version 7.x	10:15 am	11:45 am
Lunch	11:45 am	1:15 pm
Lab (con't) - Version 7.x Controller Software	1:15 pm	2:45 pm
Break	2:45 pm	3:00 pm
Lab: Safely removing and replacing Carriage assembly	3:00 pm	4:30 pm

### Thursday

Section Description	Start Time	End Time
Lab - System Troubleshooting: LED Displays SFB Test Points Interlocks Diagnostic Display Functions	08:30 am	10:00 am
Break	10:00 am	10:15 am
Lab (con't) - System Troubleshooting	10:15 am	11:45 am
Lunch	11:45 am	1:15 pm
Lab (con't) - System Troubleshooting	1:15 pm	2:45 pm
Break	2:45 pm	3:00 pm
Lab - MDIAG System Troubleshooting	3:00 pm	4:30 pm

### Friday

Section Description	Start Time	End Time
Lab - PMI Procedure Documentation and procedure	08:30 am	10:00 am
Break	10:00 am	10:15 am
Lecture (con't) - Course Evaluations. Course Certificates	10:15 am	11:45 am