

Course Title	Varian 3000 Series Electronics
Type	Instructor led
Description	This course will provide the knowledge and skill required by Maintenance Personnel to allow them to effectively operate the system, analyze, and repair Electrical and Electronic problems that might arise in the Varian 3180, 3190, 3290, 3290ST, or 3290STQ sputter system. The course will be a blend of classroom teaching, hands-on troubleshooting and calibrations
Objectives	Upon successful completion of this course, the student will demonstrate the ability and skills to: <ul style="list-style-type: none">• Use the system documentation to trace circuits.• Analyze circuit functions.• Locate system components to board level.• Develop safe troubleshooting techniques.• Operate and Troubleshoot FLUKE and ECS Controllers.• Replace Conmag and Quantum Source Targets• Calibrate source power supplies and source controller.
Target Audience	Process Engineers, Equipment Engineers, Maintenance Technicians, Maintenance Supervisors.
Prerequisites	Completion of the 3000 Series Operation and Maintenance Course. Must be competent in basic AC electricity, digital and analog electronics and should have 3-6 months working experience with the 3000 Series In-line sputtering systems.
Course Materials	Provided by SERT Systems, Inc. - hard copy manuals.
Course Length	5 days
Contact Hours	32 Hours