

# Rite Track Technical Training Center Course Syllabus



Course: 9X Advance Subject Troubleshooting  
 Course ID: 9X-AS-TS  
 System Type: 90 Series Tracks (models 90, 90S, 90SE)

Prerequisite: Successful completion of the 9X-IN-OPC Operations, Programming, and Calibrations Course and the 9X-MA-ADJ Maintenance and Adjustment Course.

**Course Objectives:**

Upon Completion of this course, the student will be able to:

- Use troubleshooting methodology to solve equipment issues.
- Diagnose System Faults.
- Trace Signals through System Schematics.
- Troubleshoot and Solve System Issues

Day	Subject	Contents	Lecture vs. Lab	Reference
1	Student Orientation, Course Introduction	Training Center Rules and Safety briefing. Program Overview, Course Objectives and Expectations	100% Lecture	Orientation and course checklists.
1	System	Safety Overview - Hazards and Interlocks, System Overview - Electric overview, Communications overview, Pneumatics overview. Schematic Navigation Overview. Troubleshooting and Diagnostics examples.	50% Lecture	Instructor's Training Manual. Alarm Log/Troubleshooting Guide.
2	System	Communication Troubleshooting - station Control, addressing, level 2/3 communication. Ribbon Cable Troubleshooting. Distribution PCB Troubleshooting. End Station Communication Troubleshooting.	95% Lab	Instructor's Training Manual. Alarm Log/Troubleshooting Guide.
3	System	Communication Troubleshooting - Power Supply - Module Communication Troubleshooting. System Troubleshooting - AC power, Interlocks, Power Supply, and DC distribution.	95% Lab	Instructor's Training Manual. Alarm Log/Troubleshooting Guide.
4	System	All level troubleshooting Exercises. Multiple Failure troubleshooting Exercises.	95% Lab	Instructor's Training Manual. Alarm Log/Troubleshooting Guide.
5	System	All level troubleshooting Exercises. Multiple Failure troubleshooting Exercises. Review, Questions and Answer Session. Certificate Presentation.	90% Lab	Instructor's Training Manual. Alarm Log/Troubleshooting Guide.