

SGDO TRAINING COURSE OUTLINE

Session	Module 1	Module 2	Module 3	Lunch
Time	8:00 – 8:30 am	8:30 – 9:30 am	9:30 - 11:30 am	11:30 - 12:30 pm
Day 1	<p>Course Basics Welcome Introductions Get Acquainted Course Objectives Detailed Course Agenda</p>	<p>Product Information Product Definition Application Gauge History Theory of Operation Types of Ionizing Radiation SGDO Hardware: Source: Cesium 137 Radioactive Decay/Half-Life Detector: Ion Chamber Operating Temperature Model 1400 Transmitter: Operating Temperature DC Input Power vs AC Input Power Display Alarms Communication Devices Basic Radiation Safety Test Your Knowledge Exercise Facility Tour</p>	<p>Hardware Source: Shutter vs. No Shutter Ion Detector: External Hardware Detector Cable Pre-Amp Board: Pre-Amp Board Gain Settings Power Supply Board Detector Check-Out Procedures Detector Hardware Review Model 1400 Transmitter: Keypad/Display/Connections Internal Hardware Board Placement Display Board Optional AC Power Supply CPU Board Detector Interface Board I/O Relay Boards: 24V DC w/0 Relays 24V DC w/2 Relays 12V DC w/0 Relays No VDC w/0 Relays No VDC w/2 Relays RS-485 Communication's Board Hart Communication's Board Transmitter Hardware Review Spare Parts List Test Your Knowledge Exercise</p>	<p>Approximate Time</p>

Session	Module 4 (Hands-On)	Module 5 (Hands-On)	Module 6 (Hands-On)	Module 7 (Hands-On)
Time	12:30 - 2:00 pm	2:00 - 3:00 pm	3:00 - 3:30 pm	3:30 – 4:00 pm
Day 1	Software/Programming Configuring/Calibrating: With Model 1400 Transmitter	Hardware Installation Installation/Commissioning Shutter/Lock/Tag Requirements Detector: Board Replacement Guidelines: AC Power Supply CPU and Other Boards Board Installation Exercise Connecting Detector Cable/Applying Power Exercise Wiring Diagrams	Maintenance Maintenance Schedule Shutter Check Tag and Label Check Source Check Leak Testing: Leak Testing Regulatory Timeframe Leak Test Service Using the Leak Test Kit Leak Test Results Hands-On Leak Test Activity	Troubleshooting Display Detector Detector Interface Board AC Power Supply CPU Board I/O Relay Boards Help from Thermo Fisher