

# Plasma Maintenance Training Course

An intermediate-level course providing skills and knowledge to aid fault-finding and hardware troubleshooting, as well as strengthening internal resilience.

## Suitability

Equipment Engineers seeking to develop the essential skills required to troubleshoot system hardware issues as they might arise, bringing self-sufficiency to the fault diagnosis process. Attendees will be working in and around live conductors during the fault tracing exercises and must be suitably qualified and experienced before undertaking assessment.

⚙️ Intermediate-level	📅 Classroom
👤 Technical Training Manager	👥 4 places
📍 UK headquarters	🕒 3 days
	🍴 Included

## Course details

- System health and safety
- Benchmark tool performance and undertake system health checks
- Location of main hardware components
- Introduction to vacuum (if required)
- Disassemble and rebuild electrode and source
- Identify main hardware blocks and internal electrical structure
- Using LogViewer/Activity Explorer and Diagnostic Viewer/Diagnostics IQ for identifying system health trends and faulty hardware
- Full schematic walkthrough
- X20 PLC and the Diagnostic Viewer/Diagnostics IQ
- EN13849 (machinery standard safety circuit)
- RF Matching and the Automatic Matching Unit (AMU)
- Demonstration disassembly of a **PlasmaPro® 100** training tool, highlighting vacuum critical components and Preventative Maintenance overview
- Exploration using 3D CAD of the customers hardware configuration, highlight the areas for Preventative Maintenance
- Practice of diagnostic/fault tracing skills using actual scenarios as seen in the field
- Understanding theoretical units on the interlock scheme, PLC and RF
- Optional candidate assessment included (multiple-choice question sheet)

