Ion Beam Platform Advanced Training

Trainer: Oxford Instruments Technical Training Manager

Places per session: 6

Duration: Up to 10 days

Location: Customer facility

The Technical Training Manager will perform a full system Preventative Maintenance (PM) with step by step instructions. The PM kit is included.

The course will be mostly based on the customer system in the cleanroom with some classroom content.

The duration of the training will be dependent on the complexity of the system, maximum time on customer site will be no longer than 10 days.

Suitable for: Comprehensive training for customers who are prepared to become self-sufficient in both maintenance and the diagnosis of system hardware issues.

The advanced training option includes the following core units.

Cleanroom based training

- System health and safety briefing
- System health checks and benchmarking tool performance using logviewer to identify preceding trends

- Full instruction and step by step guidance on a complete system PM, candidates encouraged to undertake the work under close supervision

- Essential skills - Practical units including:
  - Source disassembly
  - Grid Cleaning
  - Neutraliser conditioning
  - Bearing change and set up
  - Water seals replacement

Classroom based training units

- Location of the main hardware components
- Introduction to Vacuum (if required)
- Full Schematic walkthrough
- X20 PLC and the diagnostic viewer
- EN13849 (Machinery Standard Safety Circuit)
- RF Matching and the Automatic Matching Unit (AMU)
- Demonstration disassembly of the training tool, highlighting the vacuum critical components and the areas where PM work is to be done
- Fault tracing exercise using actual fault scenarios seen in the field and post PM issues, vacuum leaks, process drift, RF Matching.
- Ongoing candidate (self) assessment
The Candidates will work in and around live conductors during the fault tracing exercises and must be suitably qualified and experienced before undertaking assessment.

A suitable room for presentations and classroom content should be allocated prior to the trainer arriving onsite.

Training is performed 9 - 12 months from system acceptance or system is due an annual Preventative Maintenance. Date of training to be agreed with regional service team.

System must be fully functional and free from defects before the advanced training with most recent log files supplied before training date is agreed.

Note: The Candidates will work in and around live conductors during the fault tracing exercises and must be suitably qualified and experienced before undertaking assessment.

For further information please contact your local Oxford Instruments Plasma Technology office.