

Ion Beam Equipment Training Course

An Intermediate-level course providing a detailed examination and exploration of system software, component parts, and interlocks for Ion Beam systems.

Suitability

Equipment Engineers seeking to develop the essential skills required to improve their understanding of the various system software screens, components, and interlock scheme.

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| ⚙️ Intermediate-level | 📋 Classroom, Cleanroom |
| 👤 Accredited Trainer | 👥 6 places |
| 📍 Customer facility | 🕒 3 days |

Course details

- System health and safety
- Constant current/constant voltage power supplies
- Basic system health checks and benchmarking tool performance
- Software – understanding the source controller, states, and error codes
- Maintenance page and motor control
- Location of the main hardware components
- Use and maintain the ion source, grids, and neutraliser
- Schematic walkthrough
- x20 PLC and stepper motor drive modules EN13849 (machinery standard safety circuit for ion beam) and interlock overrides
- RF Matching and setting up the Automatic Matching Unit (AMU)
- Basic maintenance procedures – bearing change and set up, water seals and grid cleaning (walkthrough videos)
- Understanding fault diagnosis, with example scenarios, and interpreting alarm signals appropriately
- Optional candidate assessment included (multi-choice question sheet)
- Using TeamViewer for remote assistance

