

RF Power Fundamentals

Improved Performance and Uptime through Optimal Power Delivery

Organizational Benefits

Reduced tool cost of ownership

Optimized tool productivity

Increased troubleshooting and diagnostic skills

Improved yields due to optimized tool performance

Key Learnings

Basic knowledge of RF technology and transmission techniques

Familiarity with the fundamental relationships between the equipment and the process

The ability to understand and use simple measurement techniques for process and process tool characterization

The capability to troubleshoot typical problems & familiarity with common troubleshooting solutions

Practical hands-on knowledge of the process equipment

Target Audience

Machine operators
& maintenance personnel

Equipment and process engineers

Managers & sales personnel

Description

Advanced Energy's industry-leading RF Power Fundamentals course is designed to ensure that you are optimizing the delivery of RF power in your advanced processes. New employees and experts alike will benefit from the in-depth instruction and RF/plasma laboratory. The course will provide a greater understanding of RF technology and the RF transmission techniques used to power plasma-based manufacturing tools, and attendees will receive hands-on experience generating, manipulating and measuring plasmas through RF inputs. The critical role of RF impedance matching in power stability will be emphasized.

The full RF Power Fundamentals course is designed to be delivered over two days. The modular course design maximizes teaching flexibility and time efficiency to ensure that each class is tailored to your unique requirements.

Modules

- *Plasma systems and applications*
- *Basic electronics*
- *RF delivery systems*
- *Grounding and shielding*
- *RF measurement and instrumentation*
- *RF system troubleshooting*

Materials and Language

Each attendee will receive a comprehensive course handbook, including presentation notes, along with a number of white papers and publications (hard copy and CD) covering RF technology.

The standard course and materials are delivered in English. For international customers, special arrangements can be made to provide a qualified translator.

Instructor

The course instructors are experts in RF power and plasma-based processes. On average, these instructors have over 20 years of RF applications engineering experience.