
ABB UNIVERSITY & ONLINE ACADEMY FOR EXCITATION AND SYNCHRONIZATION

J520 – UNITROL® F Operation and Maintenance

5 days, in-person training

Course goals

The course goal is to learn how to operate, maintain and perform simple troubleshooting of the excitation system or automatic voltage regulator (AVR).

Main learning objectives

Participant profile(s)

- Operator and maintenance personnel in power plants and industrial sites

Prerequisites

- Basic knowledge of electronics and power generation
- Basic knowledge using personal computer
- English Level: B1

Delivery and learning methods

- Lectures, Presentations
- Demonstrations
- Exercises

Duration

- 5 days, Max. 8 participants

Registration

For registration or enquiries please visit: [ABB University & Online Academy for Excitation - Enquiries](#)

Notes

Tailor-made and on-site training courses on request

Topics

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- Basics of the synchronous machine
- Duties of excitation system
- Major components of the UNITROL® F excitation system

The main software function of UNITROL® F

- Voltage regulator
- Limiters
- Power System stabilizer PSS
- Superimposed regulators (Power factor and VAR control)
- Monitoring and protection

Operating aspects

- Local service panel
- Start/Stop sequence
- Commands and Indications

Maintenance aspects

- Reading the hardware drawing and tracing signals
- Maintenance schedule
- Alarm and fault indication
- How to use the commissioning and maintenance tool CMT
- What to do in case of troubles
- How to replace hardware devices



Contact us

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