

# Excitation and synchronization systems

## E-learnings



E-learnings to keep engineers, programmers, maintenance & operations personnel up-to-date on new and existing products, on processes, and on the latest technology advances.

ABB University e-learnings on Excitation and Synchronization systems are available 24/7 on ABB MyLearning.

Please visit [mylearning.abb.com](https://mylearning.abb.com) to create your account or log in.



Available 24/7



Accessible from any device



Learn at your own pace

### J990E - Excitation basics

Gain a comprehensive understanding of the principles of excitation, the behavior of synchronous machines and the functionalities of the system main components. In addition, you will go through a detailed overview of reactive power, stability principles, operation limiters and Power system stabilizer (PSS) functions.

### J131E – UNITROL® 1000

A class to deepen your knowledge on the functionality and operation of UNITROL® 1010 and 1020 excitation systems.

### J810E – UNITROL® 6000 Light

Understand the role of the UNITROL® 6000 excitation systems within the power plant and get an overview of the system's main components.

### J910E – SYNCHROTACT® 6 Learning

Learn the basics of synchronization, the importance of having safe and reliable technology to protect other equipment and people at the plant and the functionalities of our latest technology to achieve it, ABB SYNCHROTACT® 6.

---

### Digital Classroom Training with Remote digital access on Real-Time Simulator

Check one of our digital classrooms right away: available in English, German or French, they are suitable for any time zone.

The combination of digital classroom set up and remote access to the ABB Excitation Real Time Simulator (RTS) give you the opportunity to experience a complete digital hands-on training.

No need to leave your plant or travel at all: ABB's flexible program can be fully taken from your facility and can be adapted to cover your specific technical needs.

Digital classes are available for:

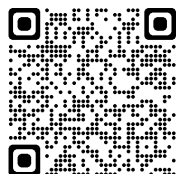
- J840D- UNITROL 6000 Light/Medium Operation & Maintenance
- J850D- UNITROL 6000 X-POWER Operation & Maintenance
- G840D- MEGATROL Operation & Maintenance
- J131D- UNITROL 1020 Service & Commissioning
- J910D- SYN 6 Service & Commissioning
- ECT refresher for UNITROL 6000
- Control Builder programming refresher for UNITROL 6000
- UNITROL 1020 refresher
- UNITROL 1020 new function refresher
- J888D PSS (Power System Stabilizer)

**RTS connections are also available for rent on a monthly or yearly basis.**



---

**Contact us at:**  
**ABB University & Online Academy for Excitation**  
Austrasse, CH-5300 Turgi  
+41 58 589 38 50  
ch-learningcenter-powerelectronics@abb.com



---

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB. Copyright© 2023 ABB  
All rights reserved