

T710e-18

System 800xA User Certification – Basic Level Integration of IEC61850 Devices

Certification Goal

The goal of this assessment is to certify the students on basic level- System 800xA in integration (horizontal and vertical) of IEC61850 devices into the Extended Automation System 800xA.

Upon passing the exam, the students will demonstrate a comprehensive understanding of integration (horizontal and vertical) of IEC61850 devices into the Extended Automation System 800xA engineering using AC 800M and shall receive their basic level certification.

Certification Type and Methods

This is a web-based assessment, accessible through the ABB Learning Management System (LMS). The assessment includes a set of multiple choice questions covering some / all of the topics discussed in the classroom training.

Participant Profile

This assessment is targeted to first level maintenance personnel and/or service engineers.

Prerequisites

Students should know the fundamentals of working with Control Systems, IEC61850 devices and have basic knowledge of Microsoft Windows 7.

Students must either have completed the T333 classroom training or have knowledge and experience associated with the content of this course.

Duration

The duration of the course is 30 minutes.



Assessment Topics

- Introduction Substation Automation
- IEC61850 standard
- System integration principals
- IEC61850 network
- ABB PCM 600
- ABB IET (Integrated Engineering Toolbox)
- ABB CCT (Communication Configuration Tool)
- ABB CET (Communication Engineering Tool)
- IEC61850 OPC server
- Import .SCD file in System 800xA
- IEC61850 alarm and events
- IEC61850 object types enhancement
- Vertical redundancy
- AC 800M as IED (Intelligent Electrical Device)
- GOOSE engineering in CCT
- GOOSE engineering in PCM600
- Import .SCD file in Control Builder
- GOOSE engineering in Control Builder M
- Horizontal redundancy
- Fault analysis

Results

Once the test is completed, the results are calculated and displayed based on the performance.