

## **Re-Qualified Operator 1-Day [800]**

### **Overview**

This fast-paced refresher course is designed to re-qualify experienced Integrated Transmission System (ITS) operators. It gives the participant an overview of the material previously covered in the Qualified Operator 5-Day course and brings the participants' knowledge and skills up to date concerning a substation. The training defines the purpose and operations of the ITS and provides an explanation of responsibilities. Both individual safety and substation safety are emphasized throughout the program.

Participants are shown how to read system one-line diagrams to identify system configuration, direction of power flow, voltages, system equipment, zones of protection and associated relay location. They also receive hands-on training in the operation and inspection of substation equipment, and the writing and executing of switching orders.

This program provides participants with the basic knowledge of how to safely perform normal operating duties and restore power in a substation following the Electrical System Operating Procedures.

### **Duration**

1 Day

### **Topics**

- Introduction
- Electrical System Operating Procedures
- Safety
- Entry to Substation
- System One-Line Diagrams
- Operating Procedures
- Types of Air Break Switches and Operating Practices
- Substation Equipment [Classroom]
- Substation Control Panels [Control Room]
- Substation Equipment [Yard]

### **Who should take this course?**

Anyone required to operate ITS equipment.

### **Prerequisites**

Course 802 - Qualified Operator 5-Day

## **Objectives**

- Apply all safety rules in accordance with safety procedures before and after entering a substation and when operating ITS equipment.
- Identify equipment symbols and associated numbering method used on the system one-line diagrams to verify that a correct switching order has been issued.
- Receive, write and physically execute a correct switching order in accordance with the Electrical System Operating Procedures.
- Identify, inspect and explain the purpose of the following individual equipment: station battery, fuses, switches, transformers and control panels.
- Physically demonstrate proper procedure in manually opening and closing the following switches: plain air break, bare-line de-energizer and rated load break.
- Physically demonstrate proper procedure for removing, refusing and replacing a power fuse.
- Physically demonstrate proper procedure for restoring power in a distribution substation, following an outage, by gathering and interpreting information appropriately.

## **Activities**

8:00 a.m. to 11:30 a.m. - classroom instruction

11:30 a.m. to 12:00 p.m. - lunch

12:00 p.m. to 3:00 p.m. - substation yard

3:00 p.m. to 4:00 p.m. - evaluation

## **Requirements**

- On-site classes require an available training room approved by Georgia Transmission Corporation instructor.
- All participants must attend complete training session from 8:00 a.m. - 4:00 p.m.
- Participants must complete all parts of the examination.
- Re-qualification is required annually.
- Training must be scheduled at least one month in advance.

## **CEUs**

0.8