



# **Generation Equipment**



## **Background**

This online course is delivered through [Spark! By OES-NA](#). The course is intended to provide system personnel with an explanation and understanding of the Generation Equipment operating on the Bulk Electric Power System. The course steps through the various topics associated with generation equipment. Each lesson is culminated with a review and quiz. Upon completion of the lessons, there is a final assessment that consists of 10 multiple choice questions. Individuals must attain a passing grade of 70% on the final assessment in order to be awarded the NERC CEHs.

## **Course Level**

Not Applicable

## **Target Audience**

The course is intended for System Operators and any personnel who wish to gain knowledge of generation equipment that operates on the Bulk Electric System. This course can also be utilized by individuals in preparing to obtain a NERC System Operator Certification Credential. This preparation will assist those individuals who are seeking their initial credential as well as those seeking recertification.

## **NERC Continuing Education Hours**

**TOTAL:** 2.5 CEHs

**Standards:** 0.0 CEHs

**Ops Topics:** 2.5 CEHs

**Sim:** 0.0 CEHS

## **NERC Emergency Training Requirement**

2.5 hours of Emergency Training

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## **Course Content**

The course steps through lessons related to generation equipment and its operation on the Bulk Electric System. Each lesson identifies and explains the various aspects related the following content:

- Principles of electric power generation
- Operation and major systems in power producing facilities
- Various types of generation facilities
- Generator operating parameters and characteristics
- Operation of generator governors
- Factors that influence generator capability

## **Delivery Schedule**

Since the course is delivered on an individual basis via the Internet, individuals have the ability to set their own pace and schedule for completion of the course. Registered students are provided with 6 months from the time of registration to complete the course.

## **Student Requirements**

- Students must sign-in using their individual log-in and password to access the course.
- Students are required to provide their NERC SO Certification # and other applicable contact information during the course registration process.
- Students must complete all course material prior to attempting the final assessment.
- Students must successfully earn a 70% grade on the final activity assessment.
- Students must submit a course evaluation form. (Level of completion is not measured, but full completion is desired)

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