

Voltage Control 1 & 2

Instructor-Led Training

The SOS Intl Voltage Control class is designed for system operators and support personnel operating on the Bulk Electric System. The course will discuss electric power principles such as Ohm's Law, voltage source and voltage drop, and active and reactive power while providing hands on experience with the PowerSimulator.

Voltage Control 1 will cover the fundamentals of voltage control in the power system, focusing on different types of equipment which affect or control reactive power. Voltage Control 2 will take a more advanced look at these principles, then discuss voltage stability, instability and collapse. These courses are designed to be taught together or separately, depending on your operators' needs.



Voltage Control 1 was designed and developed to:

- Review electric power principles
- Describe reactive power needs of the transmission grid
- Explain the types of voltage control equipment
- Relate voltage control rules (NERC Standards) and expectations
- Demonstrate how to diagnose and resolve voltage issues utilizing voltage control equipment, through simulation

Voltage Control 2 was designed and developed to:

- Review power flow and voltage control principles
- Distinguish between voltage stability and instability
- Explain the three types of voltage collapse and prevention options
- Locate, adjust, and/or direct system components to practice voltage control and mitigate voltage collapse, using simulation

Use of the PowerSimulator will enable participants to develop and test their knowledge of voltage control.

Voltage Control 1

CREDIT HOURS:

8:CEH 3:STD 4:SIM 4:EO[†]

Voltage Control 2

CREDIT HOURS:

8:CEH 1:STD 4:SIM 6:EO[†]

VC 1 & 2

CREDIT HOURS:

16:CEH 4:STD 8:SIM 10:EO[†]

[†] For PER compliance, EO training must be applicable to each individual organization. SOS hours are recommendations only. Please check with your compliance group for eligibility.



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