

Course Description Sheet

COURSE TITLE

Power Transmission & Distribution

COURSE DURATION

1 Hour(s)

OVERVIEW

This course covers basic information regarding the transmission and distribution of electric power, including components of transmission lines, transformers and switchgear, substations and electric power distribution systems. General information related to electric service loads is covered, as well as operational aspects and costs involved in transmitting and distributing electric power. The future of electric power transmission is also discussed, providing some thoughts on what trends may be seen in coming years

PREREQUISITES

No prior knowledge is required.

BEHAVIORAL OBJECTIVES

After successfully completing this course, you will be able to:

- Recall the main system components involved with electric power transmission and distribution.
- Identify the differences between transmission and distribution and how individual systems are applied between the generating plant and end users.
- Explain the various terms and applications involved with the transmission and distribution of electric power.
- Discuss the future trends of electric power transmission.

COURSE OUTLINE

Introduction – 1 minute

Power Transmission and Distribution – 10 minutes

Transmission Line Components – 10 minutes

Transformers and Switchgear – 10 minutes

Power Substations and Distribution – 10 minutes

Electric Service Loads – 5 minutes

Operation of Power Transmission and Distribution Systems – 10 minutes

Costs of Power Transmission and Distribution – 5 minutes

Future of Power Transmission and Distribution – 5 minutes

Conclusion – 1 minute

AVAILABILITY

This course is offered online and is available 24 hours a day, 7 days a week, 365 days a year.

TRAINING METHODOLOGY & EVALUATION

This course is self-paced online training. Review exercises reinforce the content, and students are evaluated with a multiple-choice exam. Upon completion, students are prompted to submit a course evaluation.