

# ELECTRIC SYSTEMS SHORT COURSE

## Government & Industry



Solutions  
Through  
Partnerships

# A Five Day Seminar that Simplifies the Complexities

The Electric Systems Short Course is a redesigned interdisciplinary course that is a joint venture among federal agencies and the Edison Electric Institute and the electric utility industry.

## WHAT YOU CAN EXPECT

- An overview of electric generation including coal, gas, hydro, nuclear and geothermal and a discussion of the industry's view of future generation and transmission needs.
- An overview of basic electrical theory.
- Transmission line systems requirements, including equipment needs, construction requirements, and related maintenance activities.
- Distribution line systems requirements, including overhead and underground facilities.
- Non-electrical considerations for facility siting including a discussion of electric and magnetic fields, wildlife protection, cultural resources, and reclamation needs.
- A daylong field trip including visits to electrical generation, transmission, distribution and sub-station facilities, and the control center for a major southwest utility.
- A case study illustrating day-to-day challenges of constructing a major transmission line in a western state from both a land management agency and a utility perspective.
- Practical information on the electric utility industry siting practices emphasizing tools for project planning and environmental assessment.

## WHAT YOU WILL GAIN

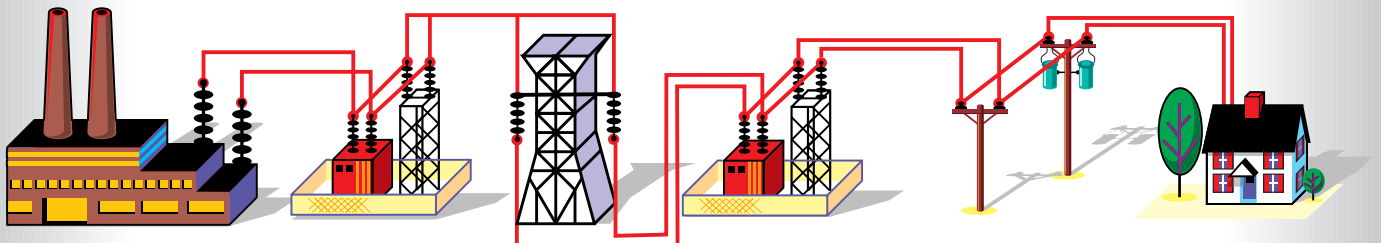
- An understanding of the requirements to site, construct, maintain and operate transmission lines and distribution systems.
- An understanding of government/utility planning efforts and their relationship to the selection of utility corridors.
- Valuable insight into ongoing changes occurring in the electric utility business.
- An excellent opportunity to network with other resource managers and utility experts.

## WHO SHOULD ATTEND

The course was developed for a broad spectrum of both field personnel and government managers who interact with electric utilities. In addition, the curriculum should appeal greatly to decision makers, those who support decision makers and those who apply for, grant and manage electric utility rights-of-way.

Listed below is a representative sample of those that would benefit from attending, but this is only a sample.

area and district Managers  
realty specialist  
land law examiners  
land specialists  
supervisory foresters and foresters  
community planners and coordinators  
wildlife biologists  
cultural resource specialists  
park managers  
ecosystem coordinators  
environmental compliance specialist  
forestry technicians  
project managers  
special uses officers



## PRACTICAL EXERCISE

The ability to identify alternative corridors and select a preferred corridor from an economic and environmental perspective clearly points out the unique cooperative relationship between government and electric utilities. This relationship is maintained in order to meet the public needs and is demonstrated through a case study simulation.

During this exercise, the student applies and tests some of the land use planning concepts discussed during the course. The objective is to make a series of good, retraceable decisions, balancing uses and needs, leading to a final decision accommodating multiple uses while minimizing environmental and economic impact.

**Each course topic is presented in a manner tailored to the students needs by using the following methods: texts, outlines and notes, movies, videos, slides, a group exercise and field trip.**

In addition, the faculty and students meet for one on one discussions in an informal setting on several evenings. This provides a great opportunity to exchange information and understand other perspectives and concerns in government and the electric utility industry.

**Every participant is given a comprehensive written record of course content for their personal library.**

## COURSE FACULTY:

A unique collection of experts from industry and government serve as course instructors. The most up to date information is available to participants. The course organizers select only instructors demonstrating exemplary knowledge in their field and complimented by excellent communication skills.

Here is a sample of the experience shared by our faculty:

*“A member of the Bureau of Land Management Advisory Council in addition to serving as an Environmental Affairs Manager for a Western utility.”*

*“A telecommunications and electric industry background focusing on the area of real estate management and complimented by an education in forestry and business.”*

*“Over twenty years experience in both substation and transmission design besides quality assurance responsibilities on Federally funded construction contracts.”*

*“Currently serves as a utility company's supervisor of Right of Way/Real Property besides active participation in the International Right of Way Association”*

## Here is what others had to say about the Short Course.....

*"Gave federal employees a chance to work with private industry and share concerns."*

*"Great forum for exchange of information."*

*"The practical exercise is excellent. It gives one the opportunity to see ecosystem management at work."*

*"Very valuable if without a formal technical background."*

*"Every decision maker in this field should attend."*

*"A chance to learn about innovative activities in industry especially regarding environmental sensitive issues."*

*"Good presentation! Excellent discussion of corridor planning and benefits for long term planning."*

*"Touched on everything including 'rights-of-way' and resource compatibility."*

*"Finally an opportunity to understand the fundamentals, all my counterparts should attend."*

*"Managers in areas that may be impacted by utility lines should attend."*

## For further information: contact your training officer or

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BLM Course #1730-21  
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