

Transmission Pipeline Cable Engineering



Overview

This course provides a comprehensive foundation in the civil and structural design of transmission lines, with a focus on physics-based principles and real-world application. GAI's experienced specialists help energy clients deliver uninterrupted power with start-to-finish support for transmission line engineering initiatives including transmission line design, upgrades, uprating, corridor routing, retrofits, reconductoring, and more. We help clients meet their goals. TRC helps you embrace new possibilities and adapt to a changing energy landscape with comprehensive transmission solutions from concept, to planning studies, land acquisition, permitting, civil, structural and electrical engineering and construction management. Participants will explore the behavior of suspended cables, conductor performance, structure spotting, and foundation design.



Article Content

Apr 27, 2026

Transmission Line Engineering

Our design experience prepares us for new infrastructure, rebuilds, upgrades, and relocation services ranging from 34.5 kV to 765 kV. Wherever your transmission projects take you, rest assured you're in ...

Oct 15, 2025

Subsea Cables & Pipelines

Our suite of services encompasses everything from design and installation to maintenance and monitoring, catering to the diverse needs of our clients in the subsea cables and pipelines sector.

Dec 11, 2025

IEEE Guide for the Design and Installation of Cable Systems in ...

Abstract: The design, installation, and protection of wire and cable systems in substations are covered in this guide, with the objective of minimizing cable failures and their consequences.

Jul 02, 2026

Transmission Engineering Services | Design and Planning

Detailed design and planning solutions for overhead and underground facilities, from line rating to reconductoring to major greenfield projects.

Jul 30, 2025

Design of Transmission Lines, Structures, and Foundations

Master the latest techniques in transmission line design with this in-depth course covering structures, conductors, and foundations. Learn to apply both traditional methods and modern software tools to ...

Mar 02, 2026

Transmission Line Engineering

GAI's experienced specialists help energy clients deliver uninterrupted power with start-to-finish support for transmission line engineering initiatives including transmission line design, upgrades, uprating, ...

Jun 07, 2026

Introduction to Cable Engineering The Fundamentals of Cable ...

2.3 Twisting While producing a multiwire cable the wires are twisted together. A cable of wires, a bundle of wires or a twisted bundle (cable core) is created.

Feb 12, 2026

Underground Transmission | Electrical Transmission

Comprehensive underground transmission services and project delivery from an industry-pioneering team for large and complex projects.

Dec 28, 2025

Summary Report: Underground Transmission Cable System

To capture key insights, important best practices, and key stakeholder value, EPRI developed this summary based on the original report. A reliable underground transmission line depends on ...

Nov 11, 2025

Transmission and Distribution | Energy | GEI Consultants

GEI has worked on hundreds of linear infrastructure projects throughout the U.S. including transmission lines, pipelines, cables, wind farms, transportation corridors and solar arrays.

Contact Us

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