Abstract

The Distribution System Design and Safety Training is a 40-hour program aimed at enhancing the technical expertise of both experienced and fresh engineers. Spanning 20 chapters, the course covers key aspects of electrical distribution systems, including system design, load forecasting, voltage regulation, loss minimization, network automation, protection coordination, and rural electrification. It also explores modern technologies such as GIS, SCADA, smart metering, and demand-side management. With a strong emphasis on Nepal-specific challenges, case studies, and hands-on exercises, the training provides a practical learning experience tailored to the country's evolving power sector.

Hosted by the Nepal Engineers Association (NEA) in collaboration with the Nepal Electricity Authority (NEA), the training aims to bridge knowledge gaps by sharing expertise and best practices in distribution system management. A significant focus is placed on safety, procurement, and inventory management, ensuring engineers are well-equipped to design, operate, and maintain reliable and efficient power distribution networks. Through interactive sessions and real-world applications, participants will gain valuable insights into optimizing distribution infrastructure while maintaining industry standards and safety protocols. This program is a crucial step toward modernizing Nepal's power distribution system and fostering a skilled engineering community.