



High Voltage (HV) Training Course

03 - 14 Aug 2026
Vienna (Austria)



High Voltage (HV) Training Course

Ref.: 15622_317544 **Date:** 03 - 14 Aug 2026 **Location:** Vienna (Austria) **Fees:** 12400 **Euro**

Introduction:

The High Voltage HV training course is designed for professionals working in environments with integral high-voltage systems. It equips participants with the knowledge and skills to safely manage, operate, and maintain high-voltage systems. They will learn the principles and applications of high-voltage engineering, engage with high-voltage engineering and testing strategies, and imbue the theory and practice of high-voltage engineering into their professional activities.

Exploring high-voltage engineering can help individuals anticipate successful careers after pursuing a master's, solidifying their foundation with high-voltage engineering fundamentals. The High-Voltage HV training certificate program, packed with HV concepts, ensures those involved acquire high-quality HV training pertinent to their roles. It could be specialized as high-voltage training for electricians a broadened.

The High-Voltage HV training solutions are imbued with the ability to cover details and adhere to the industry's high-voltage definition standards. They emphasize theoretical understanding and practical application and cover a wide range of topics, including the principles of high-voltage engineering, safety protocols, maintenance procedures, and troubleshooting techniques.

Participants will understand high-voltage safety regulations, learn to identify and mitigate potential hazards and develop proficiency in using specialized equipment and tools. This High-Voltage HV course combines classroom instruction, hands-on exercises, and real-world simulations to ensure that learners are well-prepared to handle the complexities and challenges of high-voltage systems.

This high-voltage HV training course is ideal for electrical engineers, maintenance technicians, safety officers, and other professionals responsible for the operation and safety of high-voltage equipment. Participants will be confident and competent to apply best practices in high-voltage environments, ensuring personal safety and operational efficiency.

Targeted Groups:

- Electrical Engineers.
- Maintenance Technicians.
- Safety Officers.
- Electrical Supervisors.
- Power Plant Operators.
- Industrial Electricians.
- Facility Managers.
- Utility Workers.
- Electrical Contractors.
- Technical Support Staff.

Course Objectives:

At the end of this High Voltage HV training course, the participants will be able to:

- Understand the principles of high-voltage engineering.
- Learn safety protocols and best practices for working with high-voltage systems.
- Develop skills in operating and maintaining high-voltage equipment.
- Identify and mitigate potential hazards associated with high voltage systems.
- Gain proficiency in troubleshooting high-voltage issues.
- Familiarize oneself with regulatory requirements and compliance standards.
- Acquire knowledge of emergency response procedures for high-voltage incidents.
- Enhance competency in the use of specialized tools and equipment for high-voltage work.
- Apply high voltage system design principles in practical scenarios.
- Achieve certification in high voltage safety and operation upon completion of the course.

Targeted Competencies:

Participants competencies in this High Voltage HV training program will:

- High Voltage Safety Procedures.
- Risk Assessment and Mitigation.
- High Voltage System Operation.
- Troubleshooting and Fault Diagnosis.
- Maintenance and Inspection Techniques.
- High Voltage Equipment Handling.
- Regulatory Compliance and Standards.
- Emergency Response Planning.
- Use of Specialized Tools and Equipment.
- High Voltage System Design Principles.

Course Content:

Unit 1: Introduction to High Voltage Systems:

- Overview of high voltage systems and their applications.
- Understand voltage ratings and classifications.
- Importance of safety measures in high voltage environments.
- Intro to relevant regulations and standards.
- Common types of high voltage equipment.

Unit 2: High Voltage Safety Procedures:

- Risk assessment methodologies for high voltage work.
- Personal protective equipment PPE requirements.
- Safe handling and operation of high-voltage equipment.
- Emergency shutdown procedures.
- Lockout/tagout LOTO procedures.
- Importance of grounding and bonding.

Unit 3: High Voltage System Operation:

- Fundamentals of high voltage system operation.
- Principles of electrical insulation.
- Voltage regulation techniques.
- Load management in high voltage systems.
- Transformer operation and maintenance.
- Switchgear operation and control.

Unit 4: Maintenance and Inspection Techniques:

- Scheduled maintenance procedures for high-voltage equipment.
- Insulation testing methods.
- Thermographic inspection techniques.
- Lubrication and cleaning protocols.
- Condition monitoring and predictive maintenance.

Unit 5: Troubleshooting High Voltage Systems:

- Common high voltage system faults and failures.
- Diagnostic procedures for identifying faults.
- Use of diagnostic tools such as oscilloscopes and multimeters.
- Fault location techniques.
- Repair and replacement of faulty components.

Unit 6: Regulatory Compliance and Standards:

- Overview of relevant safety regulations and standards.
- Compliance requirements for high voltage installations.
- Documentation and record-keeping obligations.
- Inspection and certification processes.
- Updates on industry best practices.

Unit 7: Emergency Response Planning:

- Develop an emergency response plan for high-voltage incidents.
- Coordinate with emergency services and personnel.
- Evacuation procedures.
- First aid and medical response protocols.
- Communication strategies during emergencies.

Unit 8: Specialized Tools and Equipment:

- Overview of tools and equipment used in high voltage work.
- Select and use insulating tools.
- Test and measurement equipment.
- High voltage cable splicing and termination tools.
- Protective barriers and enclosures.

Unit 9: High Voltage System Design Principles:

- Factors influencing high voltage system design.
- Voltage drop calculations.
- Select appropriate equipment and components.
- Design considerations for reliability and safety.
- Compliance with electrical codes and standards.

Unit 10: Practical Application and Case Studies:

- Hands-on exercises to reinforce theoretical concepts.
- Simulate high voltage scenarios.
- Analysis of real-world case studies.
- Group discussions and problem-solving sessions.
- Assessment of practical skills through simulations and scenarios.



**Registration form on the :
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Complete & Mail or fax to Mercury Training Center at the address given below

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