

SEVERE-WEATHER POWER OUTAGE RESPONSE & RESTORATION

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Schedule

Date	Venue	Fees (Face-to-Face)
15 - 17 Sep 2026	Manama - Bahrain	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Severe weather events, such as storms, hurricanes, and floods, can cause significant disruptions to electrical grids and power systems, resulting in widespread power outages. The ability to quickly respond to and restore power during these events is critical for ensuring public safety and minimizing the economic impact of outages.

This 3-day intensive course will equip participants with the skills and knowledge necessary to develop and implement effective response strategies for power outages caused by severe weather events. Through a combination of theoretical lessons, case studies, and practical exercises, participants will learn how to manage outage response, restore service efficiently, and improve resilience against future weather-related disruptions.

Objectives

By the end of this course, participants will be able to:

- Understand the impact of severe weather on power systems and electrical grids
- Develop a comprehensive response plan for managing power outages during storms and other weather events
- Implement restoration procedures to minimize downtime and restore service quickly
- Integrate best practices for disaster recovery and system resilience
- Coordinate effectively with emergency response teams, utility companies, and government agencies

Why Attend

- Learn how to prepare for and manage power outages caused by severe weather events
- Understand the key principles of disaster recovery and power system restoration
- Gain practical skills for managing resources, equipment, and personnel during power restoration
- Develop strategies to increase grid resilience and reduce the risk of prolonged outages
- Improve your ability to coordinate with stakeholders during an emergency situation

Target Audience

This program is designed for:

- Utility managers, engineers, and operators
- Emergency response coordinators and planners
- Disaster recovery and business continuity professionals
- Infrastructure and asset management teams
- Public safety officials and government agencies involved in emergency response

Individual Benefits

Key competencies that will be developed include:

- Strategic planning for severe weather-related power outages
- Restoration and recovery techniques for rapid power restoration
- Resource management skills for large-scale outage response
- Communication and coordination skills for working with external partners
- Risk management and resilience-building strategies for power systems

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Increased operational efficiency and faster power restoration during severe weather events
- A more effective and coordinated response to power outages
- Stronger disaster recovery plans and systems for grid resilience
- Better alignment between utilities, emergency services, and government agencies
- Enhanced preparedness for future weather-related disruptions

Instructional Methodology

The course follows a blended learning approach combining theory with practical application:

- Strategy Briefings - The principles of severe weather power outage management and response
- Case Studies - Real-world examples of power restoration during major weather events
- Workshops - Simulated outage response exercises and restoration planning
- Peer Exchange - Group discussions on best practices and challenges faced in outage response
- Tools - Templates for response planning, recovery procedures, and coordination strategies

Course Outline

DETAILED 3-DAY COURSE OUTLINE

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: Understanding Severe-Weather Power Outages and Response Planning

- Module 1: The Impact of Severe Weather on Power Systems (07:30 - 09:30) • Types of severe weather events and their effects on electrical grids • Common power system vulnerabilities during storms, floods, and hurricanes • Case studies of power outages caused by severe weather events
- Module 2: Developing an Outage Response Plan (09:45 - 11:15) • Key components of a comprehensive outage response plan • Coordinating response efforts across utilities, government agencies, and emergency services • Establishing communication protocols and resource allocation strategies
- Module 3: Risk Management and Power System Resilience (11:30 - 01:00) • Identifying and assessing risks to power systems during severe weather • Building resilience into power systems to reduce the impact of outages • Best practices for hardening infrastructure and minimizing service interruptions
- Workshop - Creating an Outage Response Plan (02:00 - 03:30) • Develop a response plan for a simulated weather-related power outage • Group presentation and feedback

Day 2: Restoration Procedures and Resource Management

- Module 1: Restoration Priorities and Procedures (07:30 - 09:30) • Determining restoration priorities: hospitals, emergency services, and critical infrastructure • Step-by-step procedures for restoring power efficiently • Managing safety protocols during restoration and repair work
- Module 2: Managing Resources and Personnel During Restoration (09:45 - 11:15) • Resource management: staffing, equipment, and material requirements • Logistics for mobilizing crews and materials during a large-scale outage • Managing contractors, suppliers, and external partners in the restoration process
- Module 3: Communication and Stakeholder Coordination (11:30 - 01:00) • Effective communication with the public during power outages • Coordinating with local governments, utilities, and emergency responders • Managing customer expectations and providing timely updates
- Workshop - Resource Allocation and Coordination During Restoration (02:00 - 03:30) • Simulate a power restoration scenario with a focus on resource management and communication • Group discussion and evaluation of responses

Day 3: Recovery, Resilience, and Continuous Improvement

- Module 1: Post-Restoration Recovery and Reporting (07:30 - 09:30) • Steps for post-restoration recovery and damage assessment • Reporting requirements and lessons learned documentation • Post-event analysis and continuous improvement strategies
- Module 2: Enhancing Resilience for Future Events (09:45 - 11:15) • Leveraging technology and data analytics to improve system resilience • Investment in infrastructure upgrades and smart grid technologies • Strategies for reducing recovery times in future severe weather events
- Module 3: Training and Drills for Severe-Weather Response (11:30 - 01:00) • The importance of regular training and simulation exercises for teams • Conducting drills to prepare for severe weather-related power outages • Engaging the workforce in preparedness and recovery activities
- Final Workshop - Post-Storm Recovery Planning and Resilience Strategy (02:00 - 03:30) • Develop a recovery and resilience strategy for a simulated severe-weather event • Group discussion and final feedback

Certification

Participants will receive a Certificate of Completion in Severe-Weather Power Outage Response & Restoration, demonstrating their ability to manage and restore power systems during severe weather events effectively and efficiently.

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