Advanced Emergency Power and Business Continuity Training Course



16 - 20 Nov 2026

Cape town

4600 € (Per Person)

Ref: #ERE8456_273743

Course Introduction / Overview:

In today's highly interconnected and technology-dependent world, the continuity of operations is paramount for organizational survival and success. A power outage, whether caused by natural disasters, grid instability, or malicious attacks, can bring business to a standstill, resulting in significant financial loss and reputational damage. This course provides a comprehensive framework for integrating emergency power systems with robust business continuity planning. It moves beyond theoretical concepts to offer practical, actionable strategies for ensuring operational resilience. Drawing on principles outlined by experts like Dr. David Lindstedt in works such as "The Business Continuity Management Desk Reference," this program explores the symbiotic relationship between reliable power infrastructure and strategic continuity management. Participants will learn to conduct thorough risk assessments, design resilient power solutions, and develop actionable recovery plans. BIG BEN Training Center has designed this course to empower professionals with the skills to safeguard their organization's critical functions, ensuring they can withstand and recover from any power-related disruption effectively.

Target Audience / This training course is suitable for:

- Facilities Managers and Engineers.
- IT Directors and Infrastructure Managers.
- Business Continuity and Disaster Recovery Planners.
- Risk and Compliance Officers.
- Operations Managers and Directors.
- Emergency Management Coordinators.
- Security and Crisis Management Professionals.
- Data Center Managers.
- Project Managers responsible for critical infrastructure.

Target Sectors and Industries:

- Finance and Banking.
- Healthcare and Hospitals.
- Data Centers and Information Technology Services.
- Telecommunications.
- Manufacturing and Industrial Plants.
- Government Agencies and Public Sector Services.
- Transportation and Logistics.
- Pharmaceuticals and Life Sciences.
- Utilities and Energy Sector.

Target Organizations Departments:

- Operations Management.
- Information Technology (IT).
- Facilities and Plant Management.
- Risk Management and Compliance.
- Corporate Security.
- Health, Safety, and Environment (HSE).
- Strategic Planning.
- Internal Audit.
- Crisis Management Teams.

Course Offerings:

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

- Conduct a comprehensive Business Impact Analysis (BIA) to identify critical processes and their dependencies.
- Evaluate and select appropriate emergency power systems, including UPS, generators, and alternative energy sources.
- Develop a robust testing and maintenance schedule for critical power infrastructure.
- Design and implement an integrated business continuity plan that aligns with organizational objectives.
- Master the principles of crisis management and communication during a power disruption.
- Understand the regulatory and compliance landscape related to emergency power and business continuity.
- Facilitate effective disaster recovery drills and tabletop exercises to validate plans.
- Calculate key metrics like Recovery Time Objective (RTO) and Recovery Point Objective (RPO).
- Implement strategies for continuous improvement of the business continuity management system.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can apply their learning directly to their professional roles. This course utilizes a blended approach that combines expert-led instruction with hands-on activities. Mornings will feature detailed presentations on core concepts, frameworks, and industry best practices. Afternoons are dedicated to practical application through a series of workshops, group discussions, and simulation exercises. Participants will work on real-world case studies, analyzing past power failures and successful business continuity interventions to draw actionable insights. A significant portion of the course involves collaborative group work, where attendees will develop a sample Business Impact Analysis and draft an emergency response plan. This team-based approach fosters peer-to-peer learning and allows for the exchange of diverse industry experiences. Continuous feedback is provided by the instructor throughout the sessions, ensuring a deep understanding of the material and building confidence in implementing these critical strategies within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of Operational Resilience

- Introduction to Business Continuity Management (BCM) and Emergency Power.
- The relationship between power reliability and business operations.
- Understanding key terminology: BIA, RTO, RPO, and MTPD.
- Overview of international standards like ISO 22301.
- The legal, regulatory, and contractual landscape.
- Identifying single points of failure in business processes.
- The role of leadership and governance in continuity planning.

Unit Two: Risk Assessment and Business Impact Analysis

- Identifying potential threats to power systems and operations.
- Conducting a comprehensive vulnerability assessment.
- Methodologies for performing a Business Impact Analysis (BIA).
- Prioritizing critical business functions and processes.
- Mapping dependencies between departments, systems, and suppliers.
- Quantifying the financial and operational impact of downtime.
- Presenting BIA findings to senior management.

Unit Three: Designing and Managing Emergency Power Systems

- Fundamentals of electrical power systems.
- Types of Uninterruptible Power Supply (UPS) systems and their applications.
- Sizing, selecting, and installing backup generators.
- Automatic Transfer Switches (ATS) and switchgear configurations.
- Fuel management strategies and storage requirements.
- Implementing a preventive maintenance program for power equipment.
- Exploring renewable and alternative emergency power sources.

Unit Four: Developing the Business Continuity Plan (BCP)

- Structuring the Business Continuity Plan document.
- Defining roles, responsibilities, and the command structure.
- Developing incident response procedures for power outages.
- Crafting a crisis communications plan for internal and external stakeholders.
- Strategies for manual workarounds during system downtime.
- Planning for supply chain and third-party disruptions.
- Integrating the BCP with other emergency plans (e.g., fire, security).

Unit Five: Testing, Maintenance, and Continuous Improvement

- Developing a comprehensive BCP testing strategy.
- Types of exercises: tabletop, functional, and full-scale simulations.
- Conducting effective post-exercise debriefs and creating after-action reports.
- Establishing a schedule for regular plan reviews and updates.
- Change management processes for BCM program components.
- Training and awareness programs for all employees.
- Measuring BCM program maturity and reporting on key performance indicators.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond technical redundancy, how can an organization's culture be engineered to enhance operational resilience during a prolonged power outage?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by providing a truly integrated and holistic framework that bridges the critical gap between facilities engineering and strategic business planning. Unlike programs that focus narrowly on either the technical aspects of emergency power systems or the theoretical components of business continuity, this training course treats them as two inseparable parts of a single operational resilience strategy. We move beyond simply listing equipment specifications or plan templates. Instead, the curriculum emphasizes the cause-and-effect relationship between a specific power system failure and its cascading impact on critical business functions, as identified through a rigorous Business Impact Analysis. Participants will not just learn how to write a plan; they will learn how to build a resilient enterprise from the ground up, starting from the electrical infrastructure. The methodology is heavily reliant on practical application, using case studies of real-world incidents to deconstruct complex failure points and successful recovery efforts. This approach ensures that attendees leave not with abstract knowledge, but with the concrete, cross-disciplinary skills needed to champion and implement a robust and defensible continuity program in their organization.