



# PB INSTITUTE OF RESEARCH AND TECHNOLOGY

P.O Box 21457-00100

Nairobi - Kenya

Mobile: +254 721 214 795

Email: [info@pebblesinstitute.org](mailto:info@pebblesinstitute.org)

## Emergency Preparedness, Response & Crisis Management

Duration: 5 days

On-Site

### 01 Who Should Attend

- Emergency Response and Disaster Management Professionals
- Emergency Preparedness Officers
- Crisis and Incident Managers
- Health and Safety Professionals
- Risk Management Professionals
- Business Continuity Managers
- Security and Emergency Coordinators
- Humanitarian and NGO Professionals
- Government and County Emergency Management Officials
- Fire and Rescue Personnel
- Facility and Operations Managers
- Security Managers

### 02 About the Course

This comprehensive **Emergency Response Planning and Management Training Course** equips participants with the knowledge and practical skills required to prepare for, respond to, and recover from emergencies, disasters, and critical incidents. The course covers emergency risk assessment, response planning, incident management structures, emergency communication, resource mobilisation, evacuation, coordination, business continuity, and recovery planning. Participants will learn how to develop effective emergency response plans, establish clear roles and responsibilities, coordinate multi-agency responses, manage resources under pressure, and conduct drills and simulations to strengthen organisational preparedness and resilience.



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### **03 Workshop Objectives**

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- Master hazard assessment and risk analysis techniques.
- Utilize incident command systems (ICS) for effective response.
- Implement evacuation and shelter-in-place procedures.
- Design and build robust emergency communication systems.
- Optimize resource mobilization and logistics during emergencies.
- Troubleshoot and address common challenges in emergency response.
- Implement post-incident recovery and business continuity plans.
- Integrate emergency response planning into operational workflows.
- Understand how to manage large-scale emergency response operations.

### **04 Module Topics**

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#### **Module 1: Introduction to Emergency Response Planning**

- Fundamentals of emergency response planning and management.
- Overview of emergency response principles and standards.
- Setting up an emergency response planning framework.
- Introduction to emergency response tools and methodologies.
- Best practices for emergency response implementation.

#### **Module 2: Hazard Assessment and Risk Analysis**

- Mastering hazard assessment and risk analysis techniques.
- Utilizing hazard identification and risk assessment (HIRA).
- Implementing vulnerability assessments.
- Designing and building risk assessment matrices.
- Best practices for hazard assessment.

#### **Module 3: Incident Command Systems (ICS)**



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- Utilizing incident command systems (ICS) for effective response.
- Implementing ICS organizational structures.
- Designing and building ICS communication protocols.
- Optimizing ICS for incident management.
- Best practices for ICS.

### **Module 4: Evacuation and Shelter-in-Place Procedures**

- Implementing evacuation and shelter-in-place procedures.
- Utilizing evacuation routes and assembly points.
- Designing and building shelter-in-place facilities.
- Optimizing evacuation and shelter strategies.
- Best practices for evacuation.

### **Module 5: Emergency Communication Systems**

- Designing and building robust emergency communication systems.
- Utilizing communication protocols and technologies.
- Implementing public information and media relations.
- Designing and building emergency notification systems.
- Best practices for communication.

### **Module 6: Resource Mobilization and Logistics**

- Optimizing resource mobilization and logistics during emergencies.
- Utilizing resource management and tracking systems.
- Implementing supply chain and logistics planning.
- Designing and building resource mobilization plans.
- Best practices for resource mobilization.

### **Module 7: Troubleshooting Emergency Response**



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- Troubleshooting and addressing common challenges in emergency response.
- Analyzing response performance and incident reports.
- Utilizing problem-solving techniques for resolution.
- Resolving common response errors.
- Best practices for troubleshooting.

### **Module 8: Post-Incident Recovery and Business Continuity**

- Utilizing damage assessment and recovery strategies.
- Implementing business continuity and resumption plans.
- Designing and building recovery and continuity programs.
- Best practices for recovery.
- Implementing business continuity and resumption plans.

### **Module 9: Integration into Operational Workflows**

- Integrating emergency response planning into operational workflows.
- Utilizing emergency response drills and exercises.
- Implementing emergency response training programs.
- Designing and building integrated emergency management systems.
- Best practices for integration.

### **Module 10: Large-Scale Emergency Operations**

- Understanding how to manage large-scale emergency response operations.
- Utilizing multi-agency coordination and collaboration.
- Designing scalable emergency response solutions.
- Implementing large-scale incident management strategies.
- Best practices for large-scale operations.

### **Module 11: Advanced Emergency Response Applications**



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- Exploring advanced emergency response applications (AI for situational awareness, digital twins).
- Utilizing AI and machine learning for situational awareness.
- Implementing digital twin technologies for emergency simulation.
- Designing and building advanced emergency response systems.
- Optimizing advanced applications for specific use cases.
- Best practices for advanced applications.

### **Module 12: Real-World Emergency Response Use Cases**

- Applying real world use cases for emergency response in various industries.
- Utilizing emergency response in industrial facilities.
- Implementing emergency response for natural disasters.
- Utilizing emergency response in transportation incidents.
- Implementing emergency response for cyber-attacks.
- Best practices for real-world applications.

### **Module 13: Emergency Response Tools Implementation**

- Leveraging emergency response tools and frameworks for efficient planning.
- Utilizing emergency management software and databases.
- Implementing simulation and modeling tools.
- Designing and building automated emergency response workflows.
- Best practices for tool implementation.

### **Module 14: Monitoring and Metrics**

- Implementing emergency response monitoring and metrics.
- Utilizing response performance indicators and KPIs.
- Designing and building monitoring systems for emergency projects.
- Optimizing monitoring for real-time insights.
- Best practices for monitoring.

### **Module 15: Future Trends in Emergency Response**



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- ▶ Emerging trends in emergency response technologies and applications.
- ▶ Utilizing advanced sensor and monitoring systems.
- ▶ Implementing robotic and drone-based response.
- ▶ Best practices for future emergency response.