The Incident and Emergency Centre (IEC) offers a wide range of training courses and workshops to address the needs of Member States in the development, maintenance and testing of their emergency preparedness and response (EPR) arrangements for nuclear and radiological incidents and emergencies.

The IAEA training programme in EPR aims to transfer knowledge and practical know-how and to create a sustainable learning and development framework in participating Member States. The training programme targets a broad range of professionals and practitioners in the area of nuclear and radiological EPR, including:

- Decision makers
- Emergency planners
- Emergency response coordinators
- Staff of regulatory bodies
- Radiation protection officers
- Radiological assessors
- Medical personnel
- First responders
- Training officers
- Public information officers

**QUICK GUIDE**

Actions to Protect the Public in an Emergency due to Severe Conditions at a Light Water Reactor

Communication with the Public in a Nuclear or Radiological Emergency

Cytogenetic Dosimetry: Applications in a Nuclear or Radiological Emergency

Developing a National Capability for Response to a Nuclear or Radiological Emergency

Dosimetry Basis for Protecting the Public in a Nuclear or Radiological Emergency

Emergency Preparedness and Response for States Embarking on a Nuclear Power Programme

First Response to a Radiological Emergency

Medical Response to a Nuclear or Radiological Emergency

Monitoring during a Nuclear or Radiological Emergency

Notification, Reporting and Requesting Assistance in a Nuclear or Radiological Emergency

On-site Procedures to Support Off-site Decision Making for an Emergency at a Nuclear Power Plant

Optimization of Emergency Preparedness and Response

Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency

Preparedness and Response for an Emergency at a Research Reactor

Radiological Assessment in Response to a Radiological Emergency
Objective of the training course

This training course provides participants with an understanding of the actions necessary to protect the public in the event of an emergency involving actual or projected severe fuel damage in a light water reactor (LWR) or spent fuel pool. It provides and explains the basis and the criteria for decisions regarding public protective actions during an emergency. This training is based on the IAEA publication Actions to Protect the Public in an Emergency due to Severe Conditions at a Light Water Reactor (EPR-NPP PUBLIC PROTECTIVE ACTIONS 2013).

Participants will be trained on: making decisions to protect the public based on nuclear power plant conditions; making decisions to protect the public based on environmental measurements made after a release of radioactive material; and putting the radiological health hazard in perspective for the public and answering key questions, such as “Am I safe?” and “What do I need to do to protect myself and family?”

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.

Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are decision makers and their support staff, emergency planners at facility and local levels, emergency response coordinators and emergency managers.

Target Member States

All Member States

Duration

5 days

Languages

Only available in English

For further Information:
Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides practical training to those responsible for communicating with the public and the media, and for coordinating with all sources of official information, in a nuclear or radiological emergency. This training course presents the many goals in strengthening the efficiency of public communications in preparedness and response to a nuclear or radiological emergency, which include supporting the implementation of public protective actions, mitigating the consequences of fear, and gaining and maintaining public trust. This training is based on the IAEA publication Communication with the Public in a Nuclear or Radiological Emergency (EPR-Public Communications, 2012).

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), including the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are public information officers at facility, local and national levels, emergency managers and emergency coordinators.

Target Member States

All Member States

Duration

5 days

Languages

Available in English, French and Spanish

For further Information:

Contact: iee-information@iaea.org


Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides participants with knowledge on how to select and implement, in a standardized manner, the appropriate cytogenetic technique to ensure comparable dose assessment following accidental exposure to ionizing radiation. It is based on the IAEA publication Cytogenetic Dosimetry: Applications in Preparedness for and Response to Radiation Emergencies (EPR- BIODOSIMETRY 2011).

Based on the IAEA Safety Standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are biologists, medical technologists, and laboratory staff performing biological dosimetry and relevant medical specialists (physicians, radiopathologists and haematologists).

Target Member States

All Member States

Duration

4 days

Languages

Only available in English

For further information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria

EDUCATION AND TRAINING
Nuclear Safety and Security Programme
Objective of the training course

This training course provides participants with the necessary tools and knowledge to develop and maintain capabilities for nuclear or radiological emergency response at facility, local and national levels that meet the international requirements and the guidance of the IAEA safety standards. The training is based on the IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency; No. GS-G-2.1, Arrangements for Preparedness for a Nuclear or Radiological Emergency, and No. GSG-2, Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency.

Based on the IAEA safety standards

The training follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States, where competences can be acquired, developed and maintained through an established programme of training.

Target audience

Participants are emergency planners, emergency response coordinators and emergency managers.

Target Member States

States intending to follow the IAEA Safety Standards on emergency preparedness and response to nuclear or radiological emergencies, which may include States with basic or little regulatory infrastructure and States embarking on the use of nuclear power.

Duration

5 days

Languages

Available in Arabic, English, Russian and Spanish
Objective of the training course

This training course provides a review of the radiobiological and technical base of criteria for use in preparedness and response for a nuclear or radiological emergency. Participants will be trained on steps to be taken to characterize emergency exposure situations for the evaluation of health hazards, in terms of the risk of deterministic and stochastic health effects, in line with the IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002) and No. GSG-2, Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency (2011). The training is based on the IAEA publications Extended Framework of Emergency Response Criteria: Interim Report for Comments (IAEA-TECDOC-1432), Generic Procedures for Medical Response during a Nuclear or Radiological Emergency (EPR-MEDICAL, 2005), and Dangerous Quantities of Radioactive Material (EPR-D-VALUES, 2006).

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are a broad range of specialists including physicists, technicians and medical specialists, and persons responsible for radiation protection.

Target Member States

All Member States

Duration

3 days

Languages

Only available in English

For further Information:

Contact: icie-information@iaea.org

Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides assistance to States considering embarking on a nuclear power programme, to develop an adequate level of capabilities for emergency preparedness and response to nuclear or radiological emergencies, prior to commissioning their first nuclear power plant, and to ensure the maintenance of the emergency preparedness and response programme throughout the lifetime of the facility. It also provides guidance on steps to be taken to meet the international safety standards in emergency preparedness and response, namely IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002); No. GS-G-2.1, Arrangements for Preparedness for Preparedness for a Nuclear or Radiological Emergency (2007); and GSG-2, Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency (2011). This training is also based on SSG-16, Establishing the Safety Infrastructure for a Nuclear Power Programme (2011) and on the IAEA publication Considerations in Emergency Preparedness and Response for a State Embarking on a Nuclear Power Programme (EPR-EMBARKING 2012).

Based on the IAEA Safety Standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes, the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely; and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are managers of a national nuclear power programme and managers of a national level of emergency preparedness and response programme.

Target Member States

Countries in different phases of launching a nuclear power programme and of developing their first nuclear power plant (phases I and II).

Duration

5 days

Languages

Only available in English

For further information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Training in First Response to a Radiological Emergency


Objective of the training course

This training course explains the concepts and the operational response steps described in the IAEA publication Manual for First Responders to a Radiological Emergency (EPR-FIRST RESPONDERS 2006). The manual is task-based and provides guidance on functional elements of the first response organizations (e.g. Incident Commander, Fire Department, Law Enforcement, Emergency Medical Technicians and Radiological Assessors) on the procedures to follow when responding to a radiological emergency. It includes all types of radiological emergencies, including those resulting from nuclear security events.

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses supporting national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are first responders to a radiological emergency, which include law enforcement teams, fire brigades, emergency medical services, public information officers, resource coordinators, first responder monitors, forensic evidence management teams, national officials and emergency services managers.

Target Member States

All Member States

Duration

10 days

Languages

Available in English, French, Russian and Spanish

For further Information:

Contact: iec-information@iaea.org

Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides participants with knowledge and tools in preparedness for the medical response to a nuclear or radiological emergency. It is based on the IAEA and WHO co-sponsored publication “Generic Procedures for Medical Response during a Nuclear or Radiological Emergency” (EPR-MEDICAL 2005).

This training course consists of two levels:

• Basic training: This level includes basic notions on radiation and its interaction with matter, an introduction to cell and tissue damage, clinical case studies of emergencies and organizational preparedness activities.

• Advanced training: This level focuses on medical emergency response and the treatment of patients. It includes detailed clinical case studies, a review of medical decisions, critical analysis of emergencies and organizational response activities. It provides tools to understand the treatment of overexposed or radioactively contaminated patients.

Based on the IAEA safety standards

The training follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States, where competences can be acquired, developed and maintained through an established programme of training.

Target audience

- Basic training course: Participants are medical doctors with basic experience in radiation medicine who may be involved in a nuclear or radiological emergency at the pre-hospital or hospital level, medical specialists, chief nurses, emergency medical personnel, senior health administrators, radiological assessors, hospital health physicists or radiation protection officers responsible for taking part in the medical response to nuclear or radiological emergencies.
- Advanced training course: Participants are medical doctors directly involved in the medical response in case of a nuclear or radiological emergency in their countries. As a prerequisite, they need to have taken the basic training course and should be involved in activities related to nuclear or radiological emergency response within their countries.

Target Member States

Countries with limited or basic infrastructures faced with nuclear or radiological hazards.

Duration

Basic training course: 5 days.
Advanced training course: 3 days.

Languages

Available in Arabic, English, Russian and Spanish

For further Information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1000 Vienna, Austria
Objective of the training course

This training course provides participants with practical techniques and skills for emergency monitoring, as well as knowledge required to develop emergency monitoring strategies. This training can be provided on a national, regional or inter-regional basis in a contaminated environment, with the goal of testing procedures and tools under contaminated environment conditions.

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions.

A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States, where competences can be acquired, developed and maintained through an established programme of training.

Target audience

Participants are qualified experts, radiation protection officers, assessment (monitoring) managers, senior survey technicians and supervisors, and persons responsible for training in this area.

Target Member States

All Member States

Duration

5 days

Languages

Available in English and Russian

For further Information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides participants with detailed procedures and hands-on experience to efficiently use the tools available for international communication on nuclear and radiological incidents and emergencies. The course covers notification procedures, updating of initial information, criteria for reporting nuclear and radiological incidents and emergencies as well as procedures for requesting or providing international assistance in case of a nuclear accident or a radiological emergency. The standard suite of the IAEA emergency communication exercises is presented and the expected response by the Member States is explained to the participants. Small drills are used to exercise the presented procedures.

Based on the IAEA operational arrangements

The training programme closely follows the IAEA operational arrangements Operations Manual for Incident and Emergency Communication (EPR-IEComm, 2012). The arrangements cover the designation of emergency contact points, exercises and drills, and response procedures for a set of identified events. The training programme includes sessions on the restricted attachment to EPR-IEComm, 2012, which contains details of the emergency communication channels. Practical training on the use of the Unified System for Information Exchange in Incidents and Emergencies (USIE) website for notification and reporting is also part of the training activities.

Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are staff of the officially designated emergency contact points for the IAEA in their countries, and have responsibilities for international communication during an incident or emergency within their country or if their country is affected by an incident or emergency occurring abroad.

Target Member States

All Member States

Duration

3 days

Languages

Available in English and Spanish

For further Information:

Contact: iec-information@iaea.org

Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides participants with an understanding of how to protect the public and workers in an emergency at a nuclear power plant (or similar facility). It is intended for those responsible for assessing an emergency on-site and providing recommendations to off-site decision makers.

The training covers the tools to be used and the procedures to be followed in order to identify the appropriate response actions to protect the public and workers. Participants will be trained on: assessing plant conditions and classifying the emergency, projecting the consequences, determining actions to be taken to protect the public, radiation protection of emergency workers, and assessment of environmental monitoring and sampling results.

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses supporting national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are emergency planners at facility and local levels, emergency response coordinators and emergency managers.

Target Member States

Countries with reactors in hazard categories I and II.

Duration

5 days

Languages

Only available in English

For further Information:
Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Training in Optimization of Emergency Preparedness and Response

Objective of the training course

This training course provides participants with an in-depth understanding of the concepts and the process for optimizing decision-making during the preparedness phase, the urgent response phase and the transition phase of an emergency. It will also provide practical knowledge of the principles and methods for optimizing emergency preparedness and response arrangements within an all-hazard framework as well as provide hands-on application of the principles for optimization of emergency plans at the national and regional levels.

This training is based on all Emergency Preparedness and Response publications (EPR-Series) with a view to optimizing decisions made during the planning and response phases.

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are personnel with direct responsibilities in the national or regional planning for nuclear or radiological emergencies.

Target Member States

All Member States. The training course is ideally suited for a multi-national audience from the same region.

Duration

3 days

Languages

Only available in English

For further Information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course presents concepts, terminology and the process for the preparation, conduct and evaluation of an exercise to test preparedness for a nuclear or radiological emergency. Participants will gain practical knowledge and the necessary capability to organize, conduct and evaluate an exercise to test preparedness for a nuclear or radiological emergency. This training is based on the IAEA publication Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency (EPR-EXERCISE, 2005).

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are emergency preparedness coordinators who will have a key role in the organization of exercises to test preparedness for a nuclear or radiological emergency; technical and scientific support personnel who will lead the development of exercise scenarios and simulated radiological data; emergency planners; and specialists in associated training.

Target Member States

Countries without adequate plans for the preparation, conduct and evaluation of a nuclear or radiological exercise.

Duration

5 days

Languages

Available in English and Spanish

For further Information:
Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides participants with knowledge and tools for the development and implementation of a capability to respond to an emergency at a research reactor. It also provides practical instructions for basic assessment and response functions during an emergency at a research reactor. The training is based on the IAEA publication Generic Procedures for Response to a Nuclear or Radiological Emergency at Research Reactors (EPR- RESEARCH REACTOR 2011) and Generic Procedures for Response to a Nuclear or Radiological Emergency at Triga Research Reactors (EPR- TRIGA RESEARCH REACTOR 2011).

Based on the IAEA Safety Standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements for the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses in support of national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States. Competence is acquired, developed and maintained through an established programme of training.

Target audience

Participants are emergency planners at facility and local levels, emergency response coordinators and emergency managers.

Target Member States

Countries with reactors in threat category III (< 10 MW).

Duration

5 days.

Languages

Only available in English

For further Information:

Contact: iec-information@iaea.org
Write to:
Incident and Emergency Centre
Department of Nuclear Safety and Security
International Atomic Energy Agency
Vienna International Centre, PO Box 100
1400 Vienna, Austria
Objective of the training course

This training course provides practical guidance for the team of radiological assessors that would support local officials and first responders in a radiological emergency. The course covers how to use tools and criteria developed by the IAEA to assess the radiological conditions at the scene and to mitigate the radiological consequences. Participants will be trained on response procedures such as protection of the public and responders, environmental monitoring and sampling, exposure screening and dose reconstruction, medical support and public information.

The radiological emergencies covered by the training include: uncontrolled (abandoned, lost, stolen or found) dangerous sources; misuse of dangerous industrial and medical sources (e.g. those used in radiography); public exposures and contamination from unknown origins; serious overexposures; emergencies resulting from nuclear security events; and transport emergencies.

Based on the IAEA safety standards

The training programme on preparedness and response for nuclear and radiological emergencies follows IAEA Safety Standards Series No. GS-R-2, Preparedness and Response for a Nuclear or Radiological Emergency (2002), which includes the following requirements: that all persons associated with performing functions in a radiation emergency have to be suitably trained and qualified so that they understand their responsibilities and perform their duties safely, and that response organizations identify the knowledge, skills and abilities necessary to be able to perform the emergency response functions. A further requirement of IAEA publication GS-R-2 is that these persons make arrangements the selection of personnel and training to ensure that the personnel selected have the requisite knowledge, skills, abilities, equipment, procedures and other arrangements to perform their assigned response function.
Standardized training courses supporting national and regional training

The IAEA training programme on emergency preparedness and response develops and makes available standardized courses, including lecture materials, tools and other resources, to support national and regional capacity building.

The concept of self-sustained education and training in Member States

Training in preparedness and response for nuclear and radiological emergencies is predicated on the concept of self-sustained education and training in Member States, where competences can be acquired, developed and maintained through an established programme of training.

Target audience

Participants are radiological assessors, radiation protection officers, and national level responders responsible for medical response, law enforcement, public information and emergency response coordination.

Target Member States

All Member States

Duration

5 days

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