

**First announcement**

## **Training Course**

# **Post-Accident Radiation Monitoring Techniques**

**2010, June, 14-20**



**Organized by**

**European Centre of Technological Safety (TESEC),  
Atom Komplex Prylad, Kyiv, Ukraine**

## **Objectives:**

This Training Course is organized to provide training and experience in:

- *techniques of post-accidental radiation monitoring;*
- *accidental dose assessment;*
- *decision making in the case of nuclear or radiological accidents.*

The curriculum is designed for emergency workers, decision-makers, graduate students, university faculty and scientists interested in emergency preparedness and response, radiation protection and risk assessment.

The curriculum includes:

- *classroom instruction;*
- *field training;*
- *exercises in high contaminated areas of the Chornobyl Exclusion Zone.*

## **Background:**

The Chernobyl accident has provided a unique opportunity for research and training on emergency response and post-accidental radiation monitoring. It is one of only a few places in the world where effective training and experience in internal and external dose assessment, radioactive sample collection and preparation, contamination mapping and decision making can be provided in real highly contaminated area. It is important to expand such experience for upgrading of post-accident radiation monitoring techniques and decision making in a case of nuclear or other radiological accident.

The TESEC was created by the Ministry of Ukraine of Emergencies and Affairs of Population Protection from the Consequences of Chornobyl Catastrophe and Council of Europe Open Partially Agreement on the Prevention of, Protection Against and Organization of Relief in Major Natural and Technological Disasters. It has the laboratory facilities and faculty needed to provide advanced international seminars and group training. There are laboratories and equipment for sampling and sample preparation, portable dose and dose rate meters, alpha and gamma spectroscopy and beta particle detection, In-Situ measurement technique, etc.

The curriculum of the course consists of classroom instruction, practical field exercises and data analysis at the TESEC training facility, and exercises in contaminated areas of the Chornobyl Exclusion Zone.

The main purpose is to give opportunity for the participants, who are interested in providing of measurements, to apply their knowledges in “real” conditions and to be trained as emergency monitoring team. The purpose of the course is also to give opportunity for the participants to realize what action should be done during different phases of the accident, to participate in real measurement with the aim of emergency monitoring and to apply their knowledges in decision making using real results of measurements.

**A distinguishing feature of the Training Course will be its practical aspects.** The international group of participants will be divided into teams to perform gamma and beta surveys, In-Situ gamma spectrometry, vegetation and soil sampling in contaminated field and forest locations, data acquisition and assessment.

Lectures and accommodations will take place at the TESEC training facilities (35 km from Kyiv). Opportunities for visits and tours to Kyiv will be provided through TESEC.

### **Curriculum:**

The schedules for lectures and laboratory exercises are developed by an international panel of experts. It is based on current international standards and methodologies. The training materials of IAEA train-the-trainers course “Regional Train-the-Trainers Course on Monitoring Strategies, Procedures, Reporting and Transmission of Data” will be used during the Training Course.

TESEC will provide faculty, laboratory facilities, and will arrange access to the field sites.

### **Travel:**

Participants should make their own travel arrangements to Boryspil` Airport (KBP) of Kyiv; TESEC can provide guidance.

### **Visit:**

To near of Sarcophagus and Chernobyl NPP, city of Prypyat`.

### **COURSE STRUCTURE:**

#### **Main course:**

#### ***Lectures:***

*Module M 1:* Emergency monitoring overview

*Module M 2:* Field radiation and contamination monitoring

*Module M 3:* Field sampling

*Module M 4:* Gamma spectrometry

*Module M 5:* Radiation protection of monitoring teams

*Module M 6:* Basic data evaluation

*Special lecture*

Chernobyl accident

#### ***Demonstrations and Drills***

*Session 1:* Radiation instruments

*Session 2:* Sampling equipment and techniques

*Session 3:* Gamma spectrometer calibration

*Session 4:* Personal and equipment contamination check

*Session 5:* Evaluation session

#### ***Field exercises***

*Exercise No.1:* Radiation and contamination monitoring

*Exercise No.2:* Sampling

*Exercise No.3:* In-situ gamma spectrometry

*Exercise No.4:* Laboratory measurements

*Exercise No.5:* Personal and equipment contamination check

**Registration:**

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**Prerequisites:**

Experience in radiation monitoring

**Deadline:**

Registration should be completed before May 10, 2010



The TESEC training facility (TF) location

**Previous Training Courses and Workshops review.**

