Radiation and nuclear detection – Basic Module

eLearning module

This easy-to-use eLearning module aims to help the customs officers to learn about the radioactive and nuclear control at border, being land, airport or seaport borders.

In this course, you will learn about the customs officers' modern and important role in detecting nuclear and radioactive materials, understanding the types of materials, possible incidents, threats, equipment and the detection and response process.

Another module in this topic is also available. To fully benefit from this course, we recommend to follow this course first (Basic Module) and then the Advanced module. And also to integrate the courses in your own training programme and to develop a full blended learning programme.

Target audience

Customs officers, especially if they work at border controls. As the course contains sensitive information, it is only available for customs national administrations.

Course duration

The course takes around 2 hours.

Available languages

The course is available in English.

Consult the table on the *EUROPA* website to check the availability of further EU language versions.

Learning objectives

At the end of the course, you will be able:

- to identify potential nuclear security threats or risks;
- to recognize types of materials used in nuclear and radiological devices;
- to understand the consequences of a nuclear security event;
- to determine the hazards associated to radiation;
- to measure the radiation exposure;
- to know the radiation safety principles;
- to check the transport of nuclear and other radioactive materials;
- to recognise and use various types of equipment;
- to understand the process for assessing alarms and secondary inspections.

Taxation and Customs Union

Radiation and Nuclear Detection - Basic module

Menu   Course map   Glossary   Library   Print   Help

EU eLearning

5. Radiation detection equipment

5.5. Radiation Portal Monitors

The RPM is the most sensitive detection equipment deployed at borders and ports.

They have high sensitivity. Generally, they cannot be used for gamma and neutron radiation identification.

The strengths of the RPMs

- They have quite a large efficiency in gamma detection;
- They can be integrated in the same case with 3He neutron detectors;

Radiation Portal Monitors.

*Go through the image gallery by clicking on the **bullets**, then use the middle screen left and right **arrows** to navigate through this slide*

Particularities of this course

The course includes an interactive section with real case stories: chapter 7 – Case files. Here the users can choose between 3 scenarios (seaport, airport or land border) and follow a real example exercise taking the correct decisions in each step of the process.

General Features

You may interrupt your course. When reopening the course you can resume where you have left the course off.

Besides the menu, in the upper toolbar of the course, a course map allows you to quickly access the sections and subsections.

A course summary of the most relevant information is available in a printable format. You can also print any screen of the course with the print option.

How to start and use the eLearning course?

- Select the version you wish to download.
- You have the choice between 'non-SCORM' (iso, exe, html/html5) and 'SCORM' (for LMS systems).
- If you use a 'non-SCORM' version, read the Quick Start Guide available in the downloaded zip folder. It explains how to install the courses to your system.
- Using the course does not require a high level of information technology skills from the learners.
- In case of technical issues contact first your local administrator. If the problem persists, send the description (including screenshots) to taxud-elearning@ec.europa.eu

Contact: DG TAXUD / E3
Management of Programmes & EU training
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https://ec.europa.eu/taxation_customs/eu-training_en