

# ESTABLISHING AN E-LEARNING RADIATION PROTECTION TRAINING COURSE FOR OCCUPATIONALLY EXPOSED WORKERS: CHALLENGES AND SUCCESSES

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## Overview



### E-LEARNING ASPECTS

The self-paced course, taking approximately 8-hours to complete, was developed using Articulate Storyline 360 software to create SCORM files, which are uploaded into the Agency's Learning Management System (LMS).

The Radiation Protection Training Course is an e-learning course offered for Occupationally Exposed Workers engaged in activities with radiation sources and nuclear material at Agency facilities or while on duty travel at Member State facilities.

### PURPOSE

To strengthen the safety culture within the Agency by offering a comprehensive radiation safety course delivered in consistent manner for Occupationally Exposed Workers at the Agency.

### CONTENTS AND DESIGN

The Radiation Safety Technical Services Unit, with input from an Expert Group of radiation protection and training experts throughout the Agency, defined the learning objectives, developed the course content and subsequently designed the course.

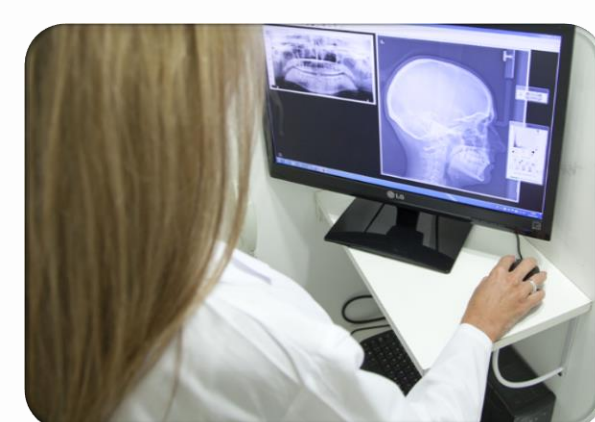
### COMPOSITION

The course is comprised of seven core modules, which cover radiation basics, exposure and dose as well as responding to incidents and emergencies, with an additional two modules for staff who travel to Member State facilities. Each module ends with a 10-question quiz to assess the learner's knowledge. The learner receives a certificate when all modules are successfully completed.

### CONCLUSION

The e-learning Radiation Protection Training Course provides convenient, consistent and comprehensive radiation safety training for Occupationally Exposed Workers at the Agency.

## Course Content



**MODULE 1**  
Radiation basics, exposure and dose



**MODULE 2**  
Radiation health effects, safety principles and standards



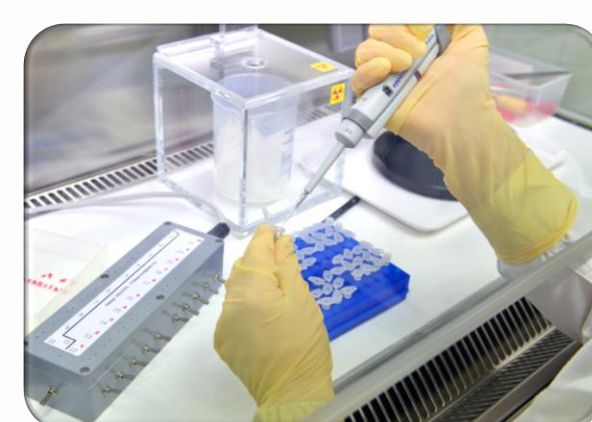
**MODULE 3**  
IAEA rules, regulations and safety culture



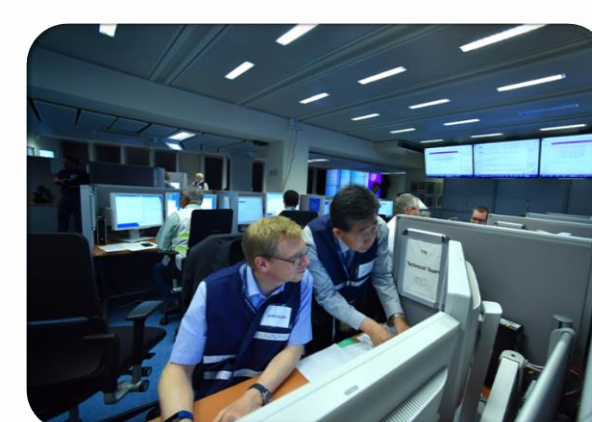
**MODULE 4**  
Radiation protection for external exposures



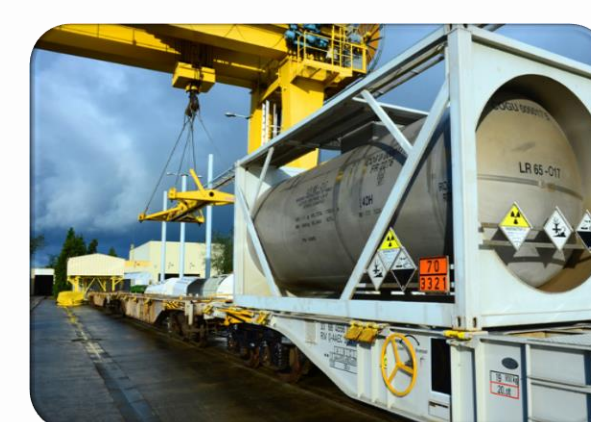
**MODULE 5**  
Radiation protection for internal exposures



**MODULE 6**  
Contamination control and PPE



**MODULE 7**  
Incidents, emergencies and reporting



**MODULE 8**  
Handling and transport of radioactive sources on duty travel



**MODULE 9**  
Safety and radiation protection on duty travel

Core Modules

For Duty Travel

## Challenges

### COMMUNICATION

Maintaining communication and requesting input from key stakeholders throughout the planning, development and execution of the course.

### STAFFING

Recruiting a team of radiation protection experts and e-learning development specialists with the required knowledge and experience.

### COURSE CONTENT

Creating a course that applies to all Occupationally Exposed Workers at the Agency, who conduct a wide-range of tasks involving radiation.

### PROJECT MANAGEMENT

Managing the course development and execution to complete the course within the planned budget and schedule.

### E-LEARNING COMPATABILITY

Creating the course to be compatible with the Agency's Learning Management System, testing the compatibility and modifying the course to achieve compatibility.

## Successes

### EXPERT GROUP

Establishing the Expert Group at the beginning of the project, who actively guided and contributed to the course development, ensuring the training objectives were met.

### RESOURCE OPTIMIZATION

Reducing the resources required to routinely provide in-person radiation safety training, while recognizing the e-learning course will need to be supplemented with facility-specific training.

### E-LEARNING BENEFITS

Providing the same content to all trainees and allowing for the trainees to complete the course at their own pace.

### TRAINEE SATISFACTION

Receiving positive feedback from the trainees, indicating satisfaction with the course.

"This training course covers all aspects Occupationally Exposed Workers need to be aware of with radiation exposure. The course is very well structured and the material is professionally prepared."

- Agency Radiation Protection Officer