

Radioactive Source Security Management



WINS Academy

INTRODUCTION

The new Radioactive Source Security Management certification programme consists of a single module, titled Radioactive Source Security Management Standalone Module. Due to the targeted nature of the programme to focus on radioactive material used predominantly in a non-nuclear environment, it does not require participants to enrol in the Foundation Module.

The course requires approximately 30 to 40 hours of self-study and concludes with a single formal examination administered by Pearson VUE. Similar to other WINS Academy programmes, the learning can be completed entirely online, and traditional hardcopy textbooks are also available.

Once participants have passed the examination—which consists of 60 questions—they will receive an electronic certificate with the designation Certified Radioactive Source Security Professional (CRSP).

As with all WINS Academy programmes, CRSPs will need to recertify to maintain their current designation. (For more information on recertification, download the [WINS Academy Recertification Guide](#).)

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The module explores security threats and the risks arising from those threats. It also examines the security systems—including administrative and technical measures—that are put in place to protect and secure radioactive sources, mitigate the threats, and minimise the risks of harmful events. In addition, the module emphasises the crucial role of security culture and human reliability programmes as well as the interface between safety and security in the protection and security of radioactive sources.

Radioactive sources are used widely in medicine, industry, academia, research and agriculture around the world. To minimise the risk that an external adversary or an insider will use these sources in a malicious act that leads to harmful consequences, sources need to be protected and secured. This requires demonstrable competence in radioactive source security management.





OUTLINE

UNIT 1: INTRODUCTION TO RADIOACTIVE SOURCES

- 1.1 Understanding Radiation and Radioactive Material
- 1.2 How Radioactive Sources Are Used
- 1.3 How Radioactive Sources Are Categorised

UNIT 2: RADIOACTIVE SOURCE SECURITY

- 2.1 Security Threats
- 2.2 Security Risks

UNIT 3: RESPONSIBILITIES FOR RADIOACTIVE SOURCE SECURITY

- 3.1 Global Responsibilities
- 3.2 State Responsibilities
- 3.3 Regulatory Body Responsibilities
- 3.4 Licensee Responsibilities

UNIT 4: SECURITY SYSTEMS

- 4.1 Physical Protection Systems
- 4.2 Physical Protection Technologies

UNIT 5: SECURITY MANAGEMENT (I)

- 5.1 The Security Policy and Security Plan
- 5.2 Administrative Measures

UNIT 6: SECURITY MANAGEMENT (II)

- 6.1 Nuclear Security Culture
- 6.2 Human Reliability

UNIT 7: ADDITIONAL WAYS TO REDUCE RISK

- 7.1 Risk Reduction: Alternative Technologies
- 7.2 Risk Reduction: Transport Security