



**Webinar on  
IAEA Nuclear Security Series No. 2-G:  
Implementing Guide on Nuclear Forensics in  
Support of Investigations (Arabic)**

**Organized by the  
IAEA Division of Nuclear Security**

**Thursday, 2 December 2021**

**Scheduled at 14:00 (Austria Time)**

**Duration: 1 hour**

**Information Sheet**

## **Introduction**

Nuclear and other radioactive material is prevalent throughout the nuclear fuel cycle; it is also widely used in other industries and in research, and other technical and scientific applications. It is a State's responsibility to implement a nuclear security infrastructure to protect these materials, including measures designed to identify, prevent, detect and respond to nuclear security events. When nuclear and other radioactive material is detected out of regulatory control, States should be prepared to respond appropriately, including applying nuclear forensics in support of investigations.

Nuclear forensics involves a comprehensive plan undertaken by States to determine the origin and history of nuclear and other radioactive material in support of law enforcement or nuclear security investigations. The IAEA Nuclear Security Series (NSS) No. 2-G [\*Implementing Guide on Nuclear Forensics in Support of Investigations\*](#), published in 2015, presents guidance on the role of nuclear forensics in the context of investigating a spectrum of possible nuclear security events involving nuclear and other radioactive material out of regulatory control. It is designed to provide descriptions of nuclear forensic examinations; the role of nuclear forensics in a national nuclear security infrastructure, including investigation of a nuclear security event; and mechanisms for international cooperation and assistance in nuclear forensics.

## **Objectives**

The objectives of this webinar are to:

- Introduce an overview of the publication NSS No. 2-G, *Implementing Guide Nuclear Forensics in Support of Investigations*;
- Enhance participants' awareness and understanding of the scope and application of nuclear forensics and its respective role in the context of a nuclear security event involving nuclear and other radioactive material found out of regulatory control;
- Raise awareness on the IAEA program of assistance for nuclear forensics capacity building.

## **Target Audience**

This webinar is aimed at organizations involved in the national nuclear security regime; officials and professionals involved in national policy, strategic planning and/or decision making; those tasked with raising awareness of nuclear forensics and/or radiological crime scene management; and those responsible for organizing and sustaining capabilities for nuclear forensics analysis and interpretation in the context of a nuclear security infrastructure.

## **Working Language(s)**

The webinar will be conducted in Arabic.

## Registration

Please register for the webinar using [this link](#) not later than **30 November 2021**.

After the registration and acceptance of your participation, you will receive an electronic mail containing information on how to access the webinar by following a hyperlink to join the WebEx meeting or by calling in by phone.

You can test your ability to connect to a WebEx meeting at the following link: <https://www.webex.com/test-meeting.html#>. Please contact your IT department if the test fails.

For additional help regarding registration, please contact Mr Henrik Horne, Division of Nuclear Security (Email: [H.horne@iaea.org](mailto:H.horne@iaea.org)).

## Webinar Program

### Opening Remarks and Introduction

Ms Eva Kovacs-Szeles, *Unit Head of the Crime Scene Management and Nuclear Forensics Unit, Division of Nuclear Security, IAEA*

### IAEA Published Guidance on Nuclear Forensics in Support of Investigations

Dr Mamoud Gad Shehata Mohamed, *Head of the Department of Nuclear Security, Egyptian Nuclear and Radiological Regulatory Authority*

### IAEA Program of Assistance for Nuclear Forensics Capacity Building

Ms Oum Keltoum Hakam, *Education Officer, Division of Nuclear Security, IAEA*

### Q & A and Conclusions

### Subject matter expert

**Dr Mamoud Gad Shehata Mohamed, Head of the Department of Nuclear Security, Egyptian Nuclear and Radiological Regulatory Authority**

Dr Mamoud Gad Shehata Mohamed joined the Egyptian State System of Accounting and Control as a safeguards inspector in 2006. In 2012, he joined the Egyptian Nuclear and Radiological Regulatory Authority (ENNRA), where he first worked as a safeguards inspector, and then as physical protection expert. From 2015 he worked for ENNRA as the Director of the Nuclear Security Support Centre, before taking office as the Head of the Department of Nuclear Security in 2018. Dr Mamoud Gad is responsible for the national nuclear security activities in Egypt, including transport security, combatting illicit trafficking, and response measures to nuclear security events involving nuclear or other radioactive material out of regulatory control. He holds a M.Sc. and a Ph.D. in physics, specializing in nuclear physics, from Cairo University and Al-Azhar University, respectively. In 2016, he was awarded a diploma in advanced security systems.