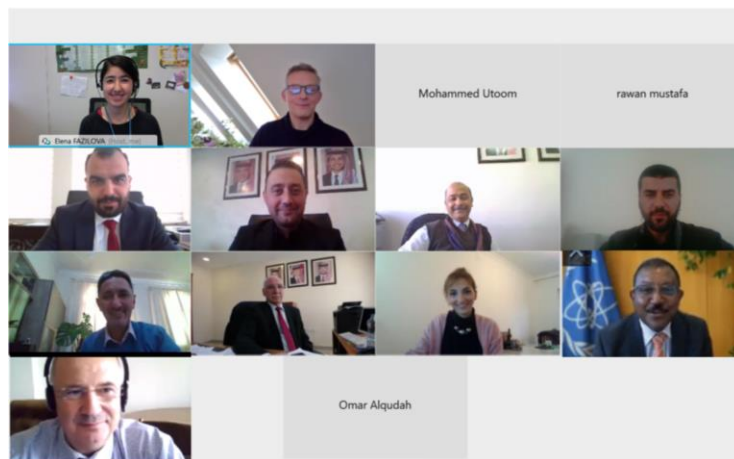


IAEA

International Atomic Energy Agency

Atoms for Peace and Development

**DEPARTMENT OF NUCLEAR SAFETY AND SECURITY
DIVISION OF RADIATION, TRANSPORT AND WASTE SAFETY**



**EDUCATION AND TRAINING APPRAISAL IN RADIATION PROTECTION AND THE
SAFETY OF RADIATION SOURCES**

JORDAN

2 November – 22 December 2020

APPRAISAL TEAM - PARTICIPANTS

Appraisal Team

Mohammad Hassan Kharita	Qatar (team leader, expert)
Raid Shweikani	Syria (expert)
Andrea Luciani	IAEA (team coordinator)

List of Participants

JAEC

Ahmad Alsabbagh	Board of Commissioners	Commissioner for Nuclear Fuel Cycle; EduTA Mission National Counterpart
Mohammad Omari	Chairman's Office	Advisor to the Chairman for Nuclear Cooperation; National Liaison Officer
Mohammed Utoom	Section of Radiation Protection	Head; Radiation Protraction Officer
Omar Alqudah	Section of Environmental Radiation Studies	Head
Rawan Mustafa	Nuclear Engineer	Nuclear Fuel Cycle Commission

EMRC

Rabei Abu Saleem	Energy and Mineral Regulatory Commission	Commissioner
Ahmad Hamdan	Radiation Protection Directorate	Director
Essa Alkhalaylah	Section of Industrial Radiological Applications	Head

BACKGROUND

In June 2020, the chairman of the Jordan Atomic Energy Commission (JAEC), Mr Khaled Toukan, sent a letter to Mr Dazhu Yang Johnston, Deputy Director General, Head of the Department of Technical Cooperation, requesting to carry out an Education and Training Appraisal mission in radiation protection and the safety of radiation sources (EduTA), with a view to host the IAEA Postgraduate Educational Course in Radiation Protection and Safety of Radiation Sources (PGEC) in Arabic. In August 2020, the IAEA Deputy Director General replied confirming IAEA's availability to provide assistance and providing IAEA's contact points (project management officer from the Division of Asia and the Pacific, and technical officer from the Division of Radiation, Transport and Waste Safety). The

nomination of a national counterpart was requested as well. In September 2020, the chairman of JAEC nominated the contact point for the EduTA.

After some preliminary contacts between IAEA and national contact points, due to the unpredictable evolution of the Covid-19 pandemic with related travel restrictions and health concerns, it was agreed to design a programme to conduct the mission with offline activities and online meetings.

The questionnaire was sent out to JAEC with the request to fill out the core modules (Module A on the legal and regulatory framework for education and training, Module B on the national strategy for education and training). Although Jordan is not hosting a PGEC under the auspices of the IAEA, it was encouraged to fill out the additional module as well (Module C on the provisions for the PGEC), in order to collect information on national initiatives to build competence at postgraduate level in the field of radiation protection and safety, considering that Jordan expressed the desire to host an IAEA PGEC in Arabic.

The core of the EduTA work was carried out from 2 November 2020 (online opening meeting) to 22 December 2020 (when the EduTA report was presented in the online closing meeting). The EduTA was supported through the IAEA Technical Cooperation project RAS/9/091 “Establishing Sustainable Education and Training Infrastructures for Building Competence in Radiation Protection”.

OBJECTIVES AND TERMS OF REFERENCE OF THE EduTA MISSION

The general objectives of the EduTA are:

- To carry out a detailed appraisal of the status of the provisions for education and training in radiation protection and the safety of radiation sources;
- To identify areas in education and training, where the provisions should be improved to meet (i) the IAEA safety standards, (ii) the national education and training needs;
- To provide the host Member State with recommendations and suggestions for improvement;
- To provide key staff in the host Member State with an opportunity to discuss the legislative framework and the national policy and strategy in the field with the EduTA team members who have experience in the issues at stake;
- To promote the IAEA Standards and Guides relevant to the scope of the appraisal.

In this framework, the terms of reference of this appraisal mission were:

- To review, together with the counterpart, the information provided in Module A and B of the EduTA questionnaire on the legal and regulatory framework for education and training in radiation protection and safety, and the national strategy for education and training;
- To provide an opportunity to continuously improve the provisions and overall infrastructure for education and training in radiation protection and safety.

CONDUCT OF THE MISSION

In August 2020, the IAEA contact point sent the questionnaire to JAEC, with instructions on how to fill it out and to provide appropriate evidences. A preliminary questionnaire with the responses and supporting documents was sent back to the IAEA contact point at the beginning of September 2020 for a first assessment. The IAEA contact point provided the Jordanian counterpart with some preliminary remarks on how to amend the information provided and the supporting documents in order to properly address some of the questions. A new completed questionnaire with additional supporting documents was sent back to the IAEA contact point at the end of September 2020. This version was shared with the EduTA team that carried out the first evaluation of the questionnaire. Module A and B were evaluated in terms of relevancy of the answers and appropriateness of the supporting documents

provided as evidence. Module C was filled out, but no evidences were provided, therefore, it was not evaluated. However, it is still included in the current report, as it is a valuable source of information if a mission in the field will be considered to provide advice on how to establish a PGEC. The results of this first evaluation of the questionnaire were provided to the Jordanian counterpart at the beginning of October 2020.

A first online meeting was organized on 2 November 2020 with the purpose to have a formal opening of the EduTA, to discuss the feedback provided by the EduTA team and to review the questionnaire. On the basis of the clarifications provided by the EduTA team during the first online meeting, the Jordanian counterpart revised the questionnaire and sent it back to the Secretariat in the middle of November. The EduTA team carried out a second evaluation of the questionnaire and prepared a draft report with conclusions and recommendations that was submitted to the national counterpart on 9 December 2020.

A second online meeting was organized on 22 December 2020 to discuss the draft report, to agree on the action plan and to formally close the EduTA mission. The Secretariat finalized the report with the assistance of the rest of the EduTA team and subsequently submitted it to the Jordanian counterpart.