

**International Atomic Energy Agency
Technical Cooperation Project**

**Regional Training Course on the Implementation and Maintaining of
Quality Management System (QMS) in Radiation Processing Facilities**

PROSPECTUS

Project Number & Title RER1017 - Using Advanced Radiation Technologies for Materials Processing

Place: Magurele, Romania

Dates: 23 to 27 May 2016

Deadline for nominations: 16 March 2016

Organizers: The International Atomic Energy Agency in cooperation with the Government of Romania through the National Institute for Physics and Nuclear Engineering "Horia Hulubei"

Host Country Organizer: Mr. Ioan-Valentin Moise
"HORIA HULUBEI" National Institute for Research and Development in Physics and Nuclear Engineering
IRASM Department,
30 Reactorului Street,
PO BOX MG-6,
077125, Magurele, Ilfov,
ROMANIA

Language: English.

Purpose: The purpose of the training course is to provide theoretical and practical training required for the generation of documents needed for implementation and maintaining of Quality Management System in radiation processing facilities according to ISO 9001:2015, ISO 13485:2003 and other related standards.

Expected Output(s) After completion of this RTC, the participants will have an understanding of the QMS requirements for gamma radiation facility operation, dosimetry for process control, and documentation. They will also learn the need and ways for maintenance and improving the QMS, according to the new trend in QMS requirements (ISO 9001:2015). The participants will be able to conduct national training courses on this subject with the help of an expert.

Scope and Nature of the course: The training course consists of lectures and practical training in the adoption, generation and modification of documents needed for the implementation and maintaining of Quality Management System (QMS) in radiation processing facilities, according to the recent changes in international standards.

Background Information Radiation technologies which are pollutant free, green technologies play very important role in the national economy. Some of them like sterilization of health care products, polymer and tyre crosslinking are well established in the developed countries, where service centres equipped with gamma irradiators or electron accelerators exist. In some cases companies are using this technology on the basis of in house components of technological lines. Such units exist in some

of in house components of technological lines. Such units exist in some developing countries, mostly joined to nuclear research institutions, and some countries are developing such installations (some of them through national TC projects). The whole Europe, countries belonging to EU and their neighbors, are affected by new standards and regulations. Therefore even this part of the technology has been well established from the technological point of view, new strategy and further development is needed. The years of extensive rise of the industry is over, the new intensive type of the development of all branches of industry is based on green , economical and advanced solutions, regulated by the factors related to safety, quality, energy saving and others. Therefore Quality Management Systems and QA/QC procedures have to be updated regularly and standardized through the region.

Participation: The training course is open to 21 participants from IAEA Member States in the region of Europe.

The target countries are: Albania; Armenia; Azerbaijan; Belarus; Bosnia and Herzegovina; Bulgaria; Croatia; Czech Republic; Estonia; Hungary; Kazakhstan; Latvia; Poland; Portugal; Republic of Moldova; Romania; Russian Federation; Serbia; Slovakia; Turkey; Ukraine.

Participants' qualifications: Candidates should have basic knowledge of ISO 9001 and ISO 13485 and some experience in radiation processing. Priority shall be given to candidates working in the most important fields of radiation processing such like sterilization, food, polymer modification.

As the training course will be conducted in English, participants should have sufficient proficiency to follow lectures and express themselves in this language without difficulty.

Nomination procedure: Nominations for the Regional training course should be submitted to the IAEA online through the Technical Cooperation Department's InTouch system (<http://intouch.iaea.org>). Should this not be possible, nominations may be submitted on the standard IAEA Nomination Form for Workshop and National Consultant (available on the IAEA website: <http://www.iaea.org>). Completed forms should be endorsed by relevant national authorities and returned to the Agency through the official channels, i.e. the designated National Liaison Office for IAEA Matters.

The completed nomination forms should be sent to the Programme Management Officer for this project, Ms-Carmina Jimenez De Bergant, through IAEA Official Fax (+43-1-26007) or E-Mail (Official.Mail@iaea.org), not later than **16 March 2016**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

Administrative and financial arrangements: Nominating Governments will be informed in due course of the names of the selected candidates and will at that time be given full details on the procedures to be followed with regard to administrative and financial matters.

During their attendance at the course, participants from countries eligible to receive technical assistance will be provided by the IAEA with a stipend sufficient to cover the cost of their accommodation, food, and minor incidental expenses. The IAEA will also provide the participants with a round-trip air ticket, economy/excursion class, from their home countries to Magurele, Romania and return. Shipment of accumulated course materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the course do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.