

TANZANIA ATOMIC ENERGY COMMISSION

(Official Government Body Responsible for Atomic Energy Matters)



National Training Courses on Radiation Protection and Safety for the financial year 2025/2026

One of the legal mandates of TAEC is to provide training in the field of peaceful uses of atomic energy, nuclear technology, radiation protection, nuclear safety and waste management. This role will be implemented following the attached training calendar for the financial year 2025/2026. The courses are designed to provide comprehensive knowledge on radiation safety for occupationally exposed workers across various sectors, including health, mining, industry, security, ports operations, and research. The primary objective of the training is to promote safety and security of radiation-emitting devices and radioactive materials while obtaining the maximum benefits of nuclear science and technology for social economic development.

Therefore, all Occupationally Exposed Workers and other Stakeholders are invited to apply for the training sessions as outlined in this calendar. Organizations or individuals with **specific training needs not reflected** in the current calendar are encouraged to reach out for customized arrangements by contacting us via training@taec.go.tz. The course fee is **TSh. 500,000/= per participant for five days**.

To ensure proper planning and implementation of the training programme, application **form must be submitted** to TAEC through training@taec.go.tz **before the application deadline indicated in the calendar**. Please download and fill the **application form**.

Our motto: *Atoms for Peace and Development*

NATIONAL TRAINING COURSES TO BE OFFERED BY TAEC FROM AUGUST 2025 TO JUNE 2026

S/N.	Title	Description	Duration	Audience	Place	Settings	Date	Application Deadlines
NT01	National Training Course on Radiation Protection and Safety for users of Nuclear Gauges	The course provides participants with awareness and knowledge on the safe operation of nuclear gauges while in operation, handling and storage	5 days	Professionals working with <ul style="list-style-type: none"> • Nuclear gauges in industrial fields • Construction • Non-destructive testing companies. 	Arusha	The training will involve lectures, discussions and practical demonstration on the safe use of the nuclear gauges	25 th – 29 th August 2025	5 days before 25 th August 2025
NT02	National Training Course on Use of Radiation Portal Monitors (RPM) for Assessment of Radiation Sources Masked in Shipping Containers at Entry Points	The Course provides participants with Techniques to Identify Undeclared Radiation Sources in Shipping Containers and Interpretation of related X-rays Images	05 days	The course is intended for <ul style="list-style-type: none"> • Customs, • Port Authority, • Police • Intelligence security officers. 	Tanga	The Course will provide practical exercises, team discussions and interactions.	8 th -12 th September 2025	5 days before 8 th September 2025
NT03	National Training Course on Radiation Protection and Safety for Users of X-Ray Generators during Cargo/Baggage Scanning	The course provides participants with instructions on safe operation of cargo/baggage and walkthrough scanners and metal detection	5 days	Professionals working with <ul style="list-style-type: none"> • Security officers (Police, intelligence) • X-Ray Baggage, • Mail Cargo • Airports, • Postal Office • Hotels • Storage facilities 	Arusha	The course specifically for Workers operating Baggage Scanners and Metal detectors at airports, hotels and storage facilities. The course will consist of lectures and group exercises. During the course, the participants will	6 th -10 th October, 2025	5 days before 6 th October 2025

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						apply the course concepts and principles through practical exercises.		
NT04	National Training Course on Occupational Radiation Protection in the Mining and Processing of Minerals with Naturally Occurring Radioactivity	The course provides overview on the Scientific knowledge of Sources of the NORMs and Exposure in Mining and Processing of Minerals and Safety in Mining Industry	5 days	The course is intended for <ul style="list-style-type: none"> Occupationally exposed workers in Mining industry. 	Arusha	The training will involve lectures, discussions and practical and good practices in handling of ores and other minerals containing natural radioactive materials	3 rd -7 th November, 2025	5 days before 3 rd November, 2025
NT05	National Training Course on Nuclear Security	The course will provide an overview of Nuclear Terrorism Threat. Assessment, Safety Concepts; and Fundamentals of Prevention Detection and Response to Nuclear incidents	5 Days	The course is intended for: <ul style="list-style-type: none"> Police Military Intelligence officers Customs officers Immigration Fire department 	Arusha	The training will involve lectures, discussions and practical demonstration on the security of radioactive or nuclear materials	10 th -14 th November, 2025	5 days before 10 th November 2025
NT06	National Training Course on Radiation Safety of X-ray Generators and other Radiation Sources Used for Medical Human Imaging	The course will provide professionals from Radiology and Non-Medical Imaging with hands-on training to update their theoretical knowledge and to improve their practical skills with regard to conducting. current best practice on Diagnostic	5 days	Professionals working with X-rays and Medical Human Imaging <ul style="list-style-type: none"> Radiation safety Officer Radiographers and sonographer Dentist Dentists' technician Radiologist Radiology nurse. 	Arusha	The course will consist of lectures and group discussions. During the course, the participants will apply the course concepts and principles through practical exercises.	24 th – 28 th November 2025	5 days Before 24 th November, 2025

S/N.	Title	Description	Duration	Audience	Place	Settings	Date	Application Deadlines
		Radiology, Medical Imaging and Quality management						
NT07	National Training Course on Radiation Protection and safety for Interventional Radiology	The course provides participants with instructions on safe and during different radiation dose management for fluoroscopically Guided interventional medical procedures use for guiding diagnostic and therapeutic medical procedures.	5 days	Professionals working with fluoroscopic guided machines for diagnostic or therapeutic medical procedures <ul style="list-style-type: none"> • Radiographers • Orthopedic • Urologist, • Neurologist, • Gastrologist • Physicians • Medical doctors • Cardiologist • Anesthetists • Nurses • MMed Student 	Arusha	The course will consist of lectures and group discussions. During the course, the participants will apply the course concepts and principles through practical exercises.	1 st – 5 th December 2025	5 days before 1 st December, 2025
NT08	Advanced National Training Course on Radiation Safety of X-ray Generators and other Radiation Sources Used for Medical Human Imaging	The course will provide professionals from Radiology and Non-Medical Imaging with hands-on training to update their theoretical knowledge and to improve their practical skills with regard to conducting. current best practice on Diagnostic Radiology, Medical Imaging and Quality management	5 days	Professionals working with X-rays and Medical Human Imaging <ul style="list-style-type: none"> • Radiation safety Officer • Radiographers and sonographer • Dentist • Radiologist • Radiology nurse. • MMed Student 	Arusha	The course will consist of lectures and group discussions. During the course, the participants will apply the course concepts and principles through practical exercises.	15 th – 19 th December 2025	5 days before 15 th December 2025

S/N.	Title	Description	Duration	Audience	Place	Settings	Date	Application Deadlines
NT09	National Training Course on Radiation Protection in Radiotherapy Practices	This course equips participants with the essential knowledge and skills to ensure radiation protection and safety in radiotherapy facilities, with emphasis on dose optimization, shielding, and patient safety.	5 days	Professionals working in radiotherapy such as <ul style="list-style-type: none"> • Medical physicists, • Oncologists, • Radiotherapist • Nurses • Radiation safety officer 	Arusha/Dar es salaam	The training will include lectures, group discussions, and practical sessions in radiotherapy planning, quality, assurance, and incident response.	26 th – 30 th January, 2026	5 days before 26 th January, 2026
NT10	National Training Course on safety and protection for Nuclear Medicine practices	The course provides the participants with the knowledge on the safe operations in nuclear medicine department	5 days	Professionals working in nuclear medicine field such as <ul style="list-style-type: none"> • Nuclear medicine technologists • Nurse • Pharmacists, • Radiologists, • Nuclear medicine physicists • Radiographer 	Arusha/Mwanza	The training will involve lectures, discussions and practical demonstration on the safe practices in nuclear medicine operations	9 th – 13 th February, 2026	5 days before 9 th February, 2026
NT11	National Training Course on Safe Handling and Transport of Class 7: Nuclear and Other Radioactive Materials	The purpose of the course is to introduce participants with key issues related to international regulations on Safe Transport of Class 7, Handling and Storage of hazardous Packages containing Nuclear and Radioactive Materials.	5 days	The course is intended for personnel working in <ul style="list-style-type: none"> • Freight Clearing and Forwarding, • Cargo handling at the Port and • Transportation. 	Arusha	The training will involve lectures, discussions and practical demonstration on the safe handling and transporting of radioactive materials	9 th -13 th March, 2026	5 days before 9 th March, 2026
NT12	National Training Course on Testing, Calibrating and Maintaining hand held Detection	The course provides overview on the scientific and technical basis on sustainable use of measuring	5 days	The course is intended for institutions possessing <ul style="list-style-type: none"> • radiation detection equipment • Nuclear Instrumentation 	Arusha	The Course will provide practical exercises, team discussions and interactions.	13 th – 17 th April, 2026	5 days before 13 th April 2026

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	Instruments	Equipment.		maintenance personnel.				
NT13	National training course on Radiation Protection for Scrap Metal Dealers	This course equips participants with essential knowledge and practical skills to detect the presence of radioactive sources in scrap metal at their workplaces. It also provides guidance on how to protect themselves, the public, and the environment from the harmful effects of radioactive or nuclear materials	3 days	<ul style="list-style-type: none"> Scrap metal Dealers Scarp Yard workers and handlers Scrap metal transporter and drivers 	Dar es salaam	The training will include lectures, demonstrations, practical, examples and Lesson Learned from different countries.	20 th -24 th April, 2026	5 days before 20 th April 2026
NT14	National Training Course in Radiation Protection and Safety for Biomedical Engineers and Technicians	The purpose of the course is to equip participants with essential knowledge and practical skills in radiation protection and safety during the installation, operation, calibration, and maintenance of radiation-emitting devices. Also, the course provides specialized training tailored to their unique roles in healthcare and industrial settings.	5 days	<p>The course is open to</p> <ul style="list-style-type: none"> Biomedical engineers Biomedical technicians Nuclear instrumentation technicians. Medical equipment maintaince and installation professionals. 	Arusha	The training will involve lectures, discussions and practical and good practices required in handling, operating, maintenance and calibration of radiation-emitting devices.	4 th - 8 th May 2026	5 days before 4 th May 2026
NT15	National Training Course on Safety and Protection from Non-Ionizing Radiation	This course provides awareness and practical knowledge on sources of non-ionizing radiation such as	5 days	<p>Professionals working in</p> <ul style="list-style-type: none"> Telecommunications, Power industries, Research institutions and Medical imagining using non-ionizing radiation. 	Arusha	The course will consist of lectures, discussions, and demonstrations on exposure assessment, risk	18 th – 22 nd May 2026	5days before 18 th May 2026

S/N.	Title	Description	Duration	Audience	Place	Settings	Date	Application Deadlines
	Sources	electromagnetic fields (EMF), UV, visible light, lasers, and radiofrequency (RF), and their effects on human health and safety standards.				communication, and mitigation strategies		
NT16	National Training Course on radiation protection to Media Personnel and Public awareness on radiation	The course will provide training to journalists and members of the media to build their knowledge on reporting issues related to nuclear matters and to ensure correct informing the public and conduct necessary training with clearing and forwarding agents for compliance and discuss challenges faced on compliance with the atomic act 2003	5 Days	Professional working in media such: <ul style="list-style-type: none"> Journalists and Members of the media 	Dar es salaam	The training will include lectures, discussions, and interactive sessions on nuclear safety communication, public perception, and ethical media reporting	8 th – 12 th June 2026	5 days before 8 th June 2026
NT17	National Training course on Emergency Preparedness and Response	The course will provide training on radiation protection during emergency of nuclear or radiological emergencies.		All institutions identified in the National Nuclear and Radiological Emergency Preparedness and Response Plan	Arusha	The training will include lectures, discussions, and interactive sessions on nuclear and radiological emergencies and response	15 th - 19 th June 2026	5 days before 15 th June 2026