

Radioactive Waste Treatment Facility

Operator Training, Competent Authority's Test, and Re-training Programs

Operator Training Programs (At least 60 hours)

A. Facility System and Operation Procedure (At least 30 hours)

1. Introduction to radioactive waste treatment technologies, including liquid waste treatment, solid wet waste treatment, and dry waste treatment (required, at least two hours for each )
2. Safety management and quality assurance of radioactive waste treatment facilities, including the safety analysis of the facility, technical specifications and operation procedures, incident response and experience sharing (required, at least two hours for each)
3. Introduction to the management of low-level radioactive waste, including its reduction, treatment, storage, transport, final disposal, release, decontamination, and facility decommissioning
4. Introduction to the management of spent nuclear fuel, including its storage, transport, final disposal and reprocessing; nuclear safeguards and security.
5. Operation-related technical courses, including unit operation and automatic control

B. General Training (At least 30 hours)

1. Radioactive Materials Management Act (required, at least three hours)
2. Ionizing Radiation Protection Act (required, at least three hours)
3. Radiation Physics and radiation protection, radiation measurement/dosimetry, and radiation accident response(required, at least two hours for each)
4. Radiation safety , including the biological effects of radiation, radiation shielding, external dose rate monitoring, internal dose rate and biochemical analysis, environmental radiation monitoring, radioactive decontamination methods, international trends in radiation protection, and applications of radiation.
5. Fundamental nuclear energy courses, including nuclear power, reactor engineering, nuclear power systems, and nuclear fuel cycle
6. Labor safety and health regulations, quality, environmental protection, and management related courses

Competent Authority's Test Programs (Written test)

1. Acts and regulations on Radioactive Materials Management

2. Introduction to radioactive waste treatment technologies

Incumbent Operator Re-training Programs (At least 60 accumulated hours in six years )

1. Facility system and operation procedure training (same courses as above)
2. General training (same courses as above)