

Radioactive Waste Treatment Facility

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

Senior Operator Training Programs (At least 60 hours)

A. Facility Management, System and Operation Procedures (At least 30 hours)

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

B. General Training (At least 30 hours)

1. Act for Radioactive Materials Management (required, at least three hours )
2. Ionizing Radiation Protection Act (required, at least three hours )
3. Radiation physics and radiation protection, radiation measurement and radiation dosage, and emergency response to radiation accident (required, at least two hours each)
4. Radiation safety related courses, 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 radiation applications
5. Basic courses on nuclear energy, including nuclear power, reactor engineering, nuclear power systems and nuclear fuel cycle
6. Courses related to labor safety and health regulations, quality, environmental protection, and management

Competent Authority's Test Programs (Written test)

1. Acts and regulations on Radioactive Materials Management
2. Radioactive waste treatment technologies
3. Radioactive waste operation management

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

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