



COURSE INTRODUCTION

Arif Yuniarto

National Research and Innovation Agency (BRIN)

Follow-up Training Course on Environmental Radioactivity Monitoring
13 October 2025

Instructor
Training Course

- NuHRDec, JAEA



Follow-up
Training Course

- Home country



Background – Topic

Decommissioning of nuclear facilities requires effective environmental radiation monitoring to ensure that dismantling and remediation activities do not pose radiological risks to workers, the public, or the environment.

Monitoring provides essential data to detect and assess potential releases of radioactive materials and to verify compliance with national regulations and international safety standards.

Reliable environmental monitoring supports transparent decision-making, regulatory reporting, and public confidence throughout the decommissioning process.

Training and competence development are crucial to equip personnel with the skills to perform accurate measurements, apply quality assurance, and interpret results effectively.



Objective – Basic Competency

To increase understanding and abilities of participants regarding **environmental radiation monitoring** during **decommissioning of nuclear facilities**



Objective - Success Indicators

Explain environmental radiation monitoring principles, methods, and regulatory requirements related to nuclear facility decommissioning.

Explain procedures for sampling, measurement, and data interpretation correctly during field or simulation exercises.

Explain quality assurance procedures and ensure compliance with national and international standards.

Explain analysis monitoring data, identify abnormal results, and prepare clear, accurate monitoring reports.

Explain awareness and positive attitudes toward radiation safety, environmental protection, and transparent communication.



Opening

- Duration: 1 x 45 minutes

Training Introduction

- Duration: 1 x 45 minutes

Pre-test

- Duration: 1 x 45 minutes

L1: Introduction to Environmental Radiation Monitoring

- Lecturer: Moh Cecep Cepi Hikmat, BRIN
- Duration: 3 x 45 minutes

L2: National regulations and international standards regarding environmental radiation monitoring during decommissioning

- Lecturer: Arif Yuniarto, BRIN
- Duration: 3 x 45 minutes



L3: Designing an Environmental Monitoring Program for Nuclear Facility Decommissioning

- Instructors: Dadong Iskandar, BRIN
- Duration: 3 x 45 minutes

L4: Environmental Behavior of Radionuclides

- Instructors: Ambar Winansi, BRIN
- Duration: 3 x 45 minutes

L5: Dispersion of Radionuclides in the Environment During Decommissioning

- Instructors: Arif Yuniarto, BRIN
- Duration: 3 x 45 minutes



L6: Sampling Techniques

- Instructors: Teguh Permana, BRIN
- Duration: 3 x 45 minutes

L7: Analysis Techniques

- Instructors: FUJITA Hiroki, JAEA
- Duration: 3 x 45 minutes

L8: Basic Statistical Data Analysis and Uncertainty in Measurement

- Instructors: OHKURA Takehisa, JAEA
- Duration: 3 x 45 minutes



L9: Trend Analysis and Baseline Comparison in Environmental Radiation Monitoring

- Instructors: OHKURA Takehisa, JAEA
- Duration: 3 x 45 minutes

L10: Environmental Radiological Risk Assessment

- Instructors: Eka Djatnika Nugraha, BRIN
- Duration: 3 x 45 minutes

L11: Final Status Survey and Site Release Criteria

- Instructors: Anggoro Septilarso, BAPETEN
- Duration: 3 x 45 minutes



L12: Introduction to Decommissioning of Nuclear Facilities in Japan

- Instructors: ISHIKURO Yasuhiro, JAEA
- Duration: 3 x 45 minutes

Post-test

- Duration: 1 x 45 minutes

Course Evaluation

- Duration: 1 x 45 minutes

Closing

- Duration: 1 x 45 minutes



Time	Monday	Tuesday	Wednesday	Thursday	Friday
	13 October 2025	14 October 2025	15 October 2025	16 October 2025	17 October 2025
07.45 ~ 08.30	Opening BRIN & JAEA	L3: Designing an Environmental Monitoring Program for Nuclear Facility Decommissioning Dadong Iskandar, BRIN	L6: Sampling Techniques Teguh Permana, BRIN	L9: Trend Analysis and Baseline Comparison in Environmental Radiation Monitoring OHKURA Takehisa, JAEA	L12: Introduction to Decommissioning of Nuclear Facilities (in Japan) ISHIKURO Yasuhiro, JAEA
08.30 ~ 09.15	Training Introduction & Building Learning Commitment (BLC) Arif Yuniarto, BRIN	ditto	ditto	ditto	ditto
09.15 ~ 09.30	BREAK				
09.30 ~ 10.15	Pre test Arif Yuniarto, BRIN	ditto	ditto	ditto	ditto
10.15 ~ 11.00	L1: Introduction to Environmental Radiation Monitoring Moh Cecep Cepi Hikmat, BRIN	L4: Environmental Behavior of Radionuclides Ambar Winansi, BRIN	L7: Analysis Techniques FUJITA Hiroki, JAEA	L10: Environmental Radiological Risk Assessment Eka Djatnika Nugraha, BRIN	Post test Arif Yuniarto, BRIN
11.00 ~ 11.45	ditto	ditto	ditto	ditto	
11.45 ~ 12.45	LUNCH BREAK				
12.45 ~ 13.30	ditto	ditto	ditto	ditto	
13.30 ~ 14.15	L2: National regulations and international standards regarding environmental radiation monitoring during decommissioning Arif Yuniarto, BRIN	L5: Dispersion of Radionuclides in the Environment During Decommissioning Arif Yuniarto, BRIN	L8: Basic Statistical Data Analysis and Uncertainty in Measurement OHKURA Takehisa, JAEA	L11: Final Status Survey and Site Release Criteria Anggoro Septilarso, BAPETEN	Course Evaluation BRIN
14.15 ~ 14.30	BREAK				
14.30 ~ 15.15	ditto	ditto	ditto	ditto	Closing BRIN & JAEA
15.15 ~ 16.00	ditto	ditto	ditto	ditto	

Terima Kasih

