

framatome

IC academy
Training Solutions 2021

IC academy

With more than 40 years of training experience, Framatome's full training portfolio includes courses on virtually every aspect of nuclear power plant construction and operation. We also design individually tailored training programs and courses to suit our customers' specific requirements. Our long-standing relationships with global experts, utilities, and institutions give us the necessary expertise to offer valuable insights into nuclear safety policy and procedures.

Our training solutions focus on:

- Certified, experienced instructors and experts in all fields of nuclear technology
- Competent advice and support regarding your intended training goals
- Practical courses with applied training on real-life systems
- Training curriculum customized to your needs
- High-quality training materials individually tailored for each course and customer

Our promise to you

Framatome offers comprehensive training solutions for the development, construction and maintenance of nuclear power plants. Our IC academy is home to world-leading experts in the industry, ready to share their know-how and experience with your operational teams. Framatome delivers the training programs you need to help you achieve your team's development goals.

Your performance

is **our** everyday **commitment**

TRAINING LOCATIONS

Framatome offers extensive system and operations training at our modern training facilities or on-site at customer locations worldwide.

 **France**

Framatome France offers instrumentation and control trainings drawn from decades of operational experience and best practices. Courses are available at Framatome sites in Lyon and Paris, as well as at actual plant sites like Flamanville. To ensure the best training for all customers, classroom and hands-on instruction are provided by our training experts.

 **Germany**

For more than 40 years Framatome has provided extensive training courses covering both nuclear plant construction and operation at our Training Center in Karlstein and Erlangen. Comprehensive instrumentation and control training is further supported by actual platforms and component mock-ups allowing participants to learn in realistic environments.



**USA**

Located in Lynchburg, Va., Framatome's Technical Training Center is located on 3.5 acres, with full-scale mock-ups, classrooms, offices, and labs to meet the growing nuclear site maintenance needs in the U.S. and around the world. Course participants receive classroom and hands-on training for plant-specific instrumentation and control configurations and new procedures in a safe, realistic environment.

**China****Slovakia**

We also offer instrumentation and control academy training courses near customer locations in China and Slovakia for our local customers in Asia and Eastern Europe. The full list of courses is continually expanding and is also available in customers' native language. Our teams of trainers look forward to welcoming you at one of the Framatome facilities, or provide training at your local facility.



EPR Reactor

MZ3A - RIC

DURATION	LOCATION	LANGUAGES
51 hours	 Flamanville	 French

TARGET GROUP

EDF EPR agents

OBJECTIVES

- Define the functional role of the equipment in process, in STE
- Define materially and functionally the role of the different subassemblies of instrumentations of RIC / AMS – COT / SPND – RPVL / RPVDT
- Know how to commission equipment including critical maintenance tests and proof of operation
- Define and apply a method of repair by implementing requirements of the quality assurance (analysis of risks, control, requalification, traceability)
- Include material and functional feedback

CONTENT

1. Specificity of the platform
2. Functional Presentation of AMS System
3. Presentation of AMS equipments
4. Presentation of the applicable documentation of AMS
5. Presentation of the normal use of the equipment of AMS
6. Practical class: Procedures of normal use of the equipment of AMS
7. Maintenance presentation of AMS
8. Practical class: maintenance corrective actions of AMS
9. Functional presentation of SPND/COT system
10. Presentation of SPND/COT equipments
11. Presentation of the applicable documentation of SPND/COT

12. Presentation of the normal use of the equipment of SPND/COT
13. Practical class: Procedures of normal use of the equipment of SPND/COT
14. Maintenance presentation of SPND/COT
15. Practical class: maintenance corrective actions of SPND/COT
16. Functional Presentation of RPVL/RPVDT system
17. Presentation of RPVL/RPVDT equipment
18. Presentation of the applicable documentation of RPVL/RPVDT
19. Presentation of the normal use of the equipment of RPVL/RPVDT
20. Practical class: Procedures of normal use of the equipment of RPVL/RPVDT
21. Maintenance presentation of RPVL/RPVDT
22. Practical class: maintenance corrective actions of RPVL/RPVDT

PREREQUISITES

The trainees must have some knowledge in automatisisation and control systems digital control

- The trainees also have a knowledge on the function of the process of elementary systems RIC, RPN and RGL
- The trainees have already followed the MZ00 “functional Approach of the instrumentation and control reactor of EPR FA3” training and the MZ01 “Study and Maintenance of the control of Sureté of EPR FA3 (PS, RCSL, HKS, CCAG, PIPS)” training

OTHER INFORMATION

Contact: ic-academy@framatome.com for more information

EPR Reactor

MZ3B - RPN

DURATION	LOCATION	LANGUAGES
19 hours	 Flamanville	 French

TARGET GROUP

EDF EPR agents

OBJECTIVES

- Define the functional role of the equipment in process, in STE
- Define materially and functionally the role of the different subassemblies of instrumentations
- Know how to commission equipment including critical maintenance tests and proof of operation
- Define and apply a method of repair by implementing requirements of the quality assurance (analysis of risks, control, requalification, traceability)
- Include material and functional feedback

CONTENT

1. Specificity of the platform
2. Functional presentation of RPN system
3. Presentation of RPN equipment
4. Presentation of the applicable documentation
5. Presentation of the normal use of the equipment of RPN system
6. Practical class: Procedures of normal use of the equipment of RPN
7. Maintenance presentation
8. Practical class: maintenance corrective actions

PREREQUISITES

The trainees must have some knowledge in automatisisation and control systems digital control

- The trainees also have a knowledge on the functional of the process of elementary systems RIC, RPN and RGL
- The trainees have already followed the MZ00 "Functional Approach of the Instrumentation and Control Reactor of EPR FA3" training and the MZ01 "Study and Maintenance of the control of Sureté of EPR FA3 (PS, RCSL, HKS, CCAG, PIPS)" training

OTHER INFORMATION

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EPR Reactor

MZ3C - RPI

DURATION	LOCATION	LANGUAGES
26 hours	 Vitry Platform - France	 French

TARGET GROUP

EDF EPR agents

OBJECTIVES

- Define the functional role of the equipment in process, in STE
- Define materially and functionally the role of the different subassemblies of instrumentations
- Know how to commission equipment including critical maintenance tests and proof of operation
- Define and apply a method of repair by implementing requirements of the quality assurance (analysis of risks, control, requalification, traceability)
- Include material and functional feedback

CONTENT

1. Specificity of the platform
2. Functional presentation of RGL/RPI-RDTME System
3. Presentation of RGL/RPI-RDTME equipment
4. Presentation of the applicable documentation
5. Presentation of the normal use of the equipment of RGL/RPI-RDTME
6. Practical class: Procedures of normal use of the equipment of RGL/RPI-RDTME
7. Maintenance presentation
8. Practical class: maintenance corrective actions

PREREQUISITES

The trainees have already participated in the MZ01 training

OTHER INFORMATION

Contact: ic-academy@framatome.com
for more information

IC academy

Organization
and information

SPECIFIC TRAINING REQUIREMENTS

Do you have specific requirements for a training course? We can put together a tailor made course. Please contact us and we will be happy to advise you.

Please email us at:

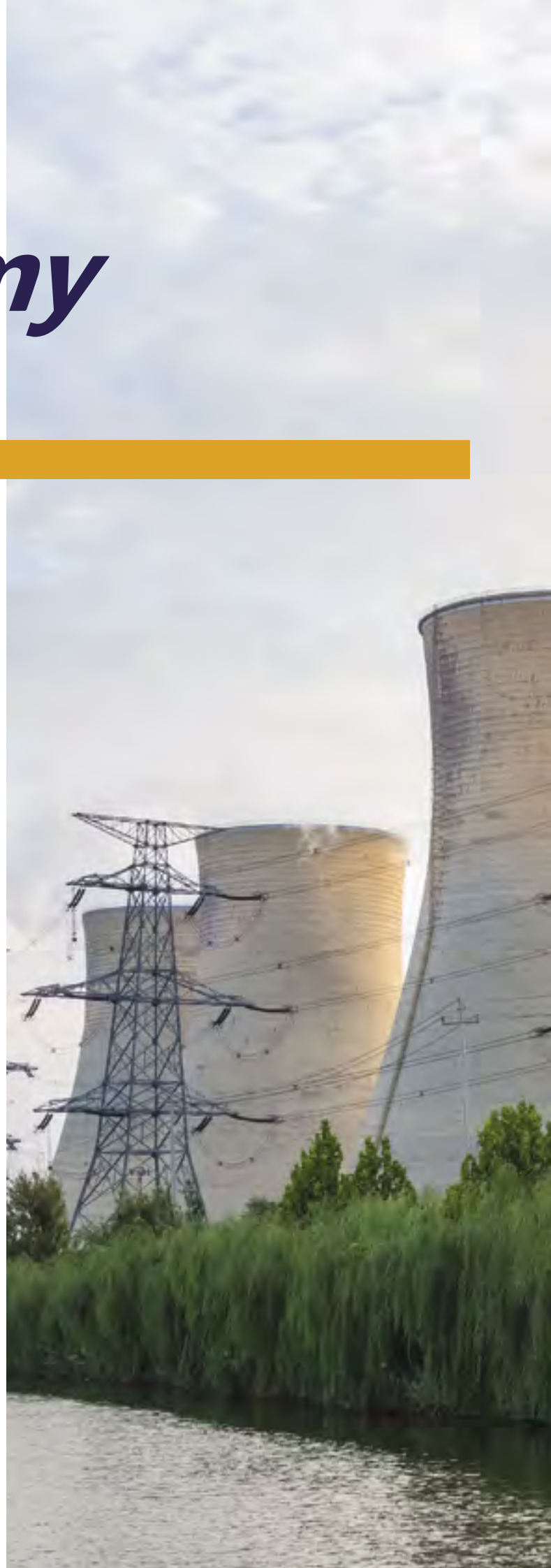
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Framatome is an international leader in nuclear energy recognized for its innovative solutions and value-added technologies for the global nuclear fleet. With worldwide expertise and a proven track record for reliability and performance, the company designs, services and installs components, fuel, and instrumentation and control systems for nuclear power plants. Its more than 14,000 employees work every day to help Framatome's customers supply ever cleaner, safer and more economical low-carbon energy.

Visit us at: www.framatome.com, and follow us on Twitter: @Framatome_ and LinkedIn: Framatome.

Framatome is owned by the EDF Group (75.5%), Mitsubishi Heavy Industries (MHI – 19.5%) and Assystem (5%).



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