



A.N.T. International Academy

ONLINE EDUCATION

Fuel Fabrication Audit/Review

COURSE DESCRIPTION

The objective of the Fuel Fabrication Audit/Review course is to provide guidance for a cost effective audit which uses audit time on areas which are most likely to affect the performance of the PWR/VVER and BWR fuel. The Fuel Fabrication Process Audit course focuses on a “Process Audit” procedure, the audit of the fabrication process parameters for making high quality fuel.



The course provides the “what, why and how” to look at in an audit by:

- Listing the generic fabrication process steps for all components and their assembly (what to look for);
- Identifying important audit points and the attendant potential effect of deviations on performance (why to look);
- Assess the fabrication and QC process control at critical points (how to look). The course involves reading technical reports, watching lectures and participating in online assessments (tests).

The course material, including the online content, can be accessed at times convenient for practicing engineers and managers. Assessments are done online, with an understanding of the current material (i.e., 70% required correct answers) needed to proceed to the next part of the course. After passing the final online test, a certificate will be issued to the student.

The content is described more in the [Appendix](#).

COURSE MATERIAL

The course material was developed by A.N.T. International and consists of modified/edited earlier recorded A.N.T. International Seminar and the associated **Fuel Design Review Handbook** (FDRH).

[Download product information](#)

AUTHORS/LECTURERS

The authors/lecturers of the reports and lectures, World Class Experts in their fields, are as follows:

Alfred Strasser, Charles Patterson, Kenny Epperson, Graham Walker and Peter Rudling.

[*Read more about the Experts*](#)

COURSE DURATION

- Total time: About 2-week for full time studies
- Reading: 23 h
- Webinars: 9 h
- 2 Tests: 2 h

The listed time for the lectures is the actual running time. More time may be needed to digest the information provided in this course.

CERTIFICATE

You will automatically receive an email with your certificate that you can print or share on social media. If you need a printed certificate, please don't hesitate to contact us and we can send it to you via regular mail. You reach us at support@antinternational.com.

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Appendix: Course outline and topics covered

1. Structure and Components of the Fuel Assembly
2. Utility Audit Procedures
3. Quality Assurance Systems and Standards
4. Qualification Programs
5. Fuel and Pellet Fabrication
6. Zirconium Alloy Component Fabrication
7. Fuel Rod Assembly
8. Spacer Grid Assembly
9. End Fitting Fabrication and Assembly
10. Fuel Bundle Assembly
11. BWR Channel Assembly
12. Statistical Quality Control
13. Software Quality Assurance



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