



# A.N.T. International Academy

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## ONLINE EDUCATION

## BWR Material Advanced

### COURSE DESCRIPTION

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The objective of the BWR Material Degradation Advanced course is to provide Engineers and Technical Managers with a background in Structural Material Degradation in LWRs with the necessary background information to understand more complicated plant corrosion and metallurgical information.



The course involves watching recorded lectures and taking a final online exam (test). You may do your studies at any time or pace convenient for you.

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

### COURSE MATERIAL

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The course material was developed by A.N.T. International and consists of modified/edited earlier recorded A.N.T. International Seminar.

### AUTHORS/LECTURERS

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

*Structural Material Degradation:*

**Peter Ford, Peter Scott and Pierre Combrade.**

*Coolant Chemistry and Corrosion:*

**Samson Hettiarachchi, Robert Cowan and Wilfried Rühle.**

*Fuel Material:*

**Alfred Strasser, Richard Collingham, Charles Patterson, Friedrich Garzarolli,**

**Ron Adamson and Peter Rudling.**

[Read more about the Experts](#)

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## COURSE DURATION

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- Total time: Around 5 weeks for full-time studies
- Literature: 90h
- Lectures: 85 h
- 4 Tests: 4 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

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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](mailto:support@antinternational.com).

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## CONTACT

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For more information and/or an offer welcome to contact us at [sales@antinternational.com](mailto:sales@antinternational.com)

Please also visit our website for the latest updated information, [www.antinternational.com](http://www.antinternational.com)



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# Appendix: Course outline and topics covered

1. BWR Chemistry (Introduction)
2. Dose Rate Mitigation Technologies
3. IGSCC Mitigation Technologies
4. Plant Operational Chemistry and Controls
5. Water Chemistry Specification, Guidelines and Action Levels
6. BWR Fuel (Introduction)
7. Reactor Safety and Fuel Design
8. Current Fuel Performance
9. BWR Structural Material Degradation
10. Environmentally-Assisted Cracking of Austenitic and Ni-base Alloys
11. BWR System Specific Topics



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