



A.N.T. International Academy

ONLINE EDUCATION

BWR Material Engineering

COURSE DESCRIPTION

The objective of the BWR Material Degradation Engineering 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

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

AUTHORS/LECTURERS

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](#)

COURSE DURATION

- 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

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.

TRY THIS COURSE FOR FREE!

All of our currently available courses have selected content you can access completely free of charge. Click the button to the right, select the course you would like to try out and sign up!

[CLICK HERE TO SIGN UP](#)

CONTACT

For more information and/or an offer welcome to contact us at sales@antinternational.com

Please also visit our website for the latest updated information, www.antinternational.com



SUBSCRIBE TO OUR MAILING LIST

No spam, only useful information to our customers about new products, special offers and more!

[SUBSCRIBE HERE!](#)

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



A.N.T. INTERNATIONAL®

www.antinternational.com

Advanced Nuclear Technology International,
Spinnerivägen 1, Fack 5035, SE-448 50 Tollerød, Sweden. Phone: +46 (0)31-88 16 00.
info@antinternational.com www.antinternational.com