



A.N.T. International Academy

ONLINE EDUCATION

Material Introduction

COURSE DESCRIPTION

The objective of the Material Introduction course is to provide engineers/managers with no or little background in Material Degradation in LWRs with the necessary background information to understand more complicated plant corrosion and metallurgical information. Not only presently inexperienced engineers working on structural materials but also plant chemists, engineers working on nuclear fuel, as well as high level managers could benefit from this course.



The course involves watching pre-recorded lectures and participating in an online assessment (test). The lectures 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)

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:

Peter Scott, Peter Ford and Pierre Combrade.

[Read more about the Experts](#)

COURSE DURATION

- Total time: approx. 20 hours for full time studies
- Lectures: 18 h
- 1 Test: 1 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) MATERIAL INTRODUCTION

1. Introduction and Background to Material Degradation
2. Physical Metallurgy of Structural Alloys
3. Corrosion Basics
4. Environmentally-assisted Cracking of Austenitic and Ni-base alloys
5. Low Temperature EAC in LWRs
6. Oxidation and Cation Release of Stainless Alloys in Light Water Reactors and FAC



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