
COURSE DURATION

- Total time: around 8 hours
- Reading: 3 h
- Lectures: 5 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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Appendix: Course outline and topics covered

1) SOURCES OF CRUD

- » Composition and thickness of the oxide layers
- » Influence of design and structural materials (PWR, VVER and CANDU plants)

2) RELEASE AND TRANSPORTATION OF CRUD IN THE COOLANT

- » Interaction of oxide layers with coolant
- » Particulate, colloidal and dissolved
- » Distribution, composition

3) FUEL DEPOSITION

- » Mechanism
- » Composition, morphology and distribution on fuel assemblies
- » Consequences of fuel crud deposits (cladding corrosion, AOA)

4) CORE CRUD RELEASE AND RADIATION BUILD-UP



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