



CNS Nuclear-101 Course, Ottawa, 2017 May 1 & 2

A general-level background outreach course for people working in the Industry as well as anyone interested in obtaining a good understanding of Nuclear issues.

Date/Venue: 2017 May 1 and 2; Courtyard Marriott Ottawa East and Ottawa Conference and Event Centre, 200 Coventry Road, Ottawa, K1K 4S3

Instructors: Doug Boreham, Jason Donev, Benjamin Rouben

Course Summary

The course includes three modules:

1. Nuclear Fuel Cycle (Jason Donev)

Basic introduction to energy flow, nuclear theory and how nuclear power stations work. An overview of the nuclear fuel cycle (exploration, mining, processing enrichment and nuclear power generation), nuclear waste storage and reprocessing.

2. Radiation and Risk (Doug Boreham)

Ionizing radiation and its affect on the environment and the human body. Overview of safety, particularly in the context of nuclear accidents. Risk and the public perception of radiation.

3. Nuclear Myths and Reality (Benjamin Rouben)

Review of nuclear history of nuclear power, nuclear accidents, and nuclear benefits to society. Common public misperceptions and how to deal with them. Frequently-Asked-Questions about nuclear technology, and effective ways to answer them to a non-technical audience.

Timetable

Day 1	7:45-8:30 am	Breakfast (provided)
	8:30 – 8:45 am	Course overview. Introduction of Instructors
	8:45 – 12:00 pm	Introduction to Nuclear Theory and the Nuclear Fuel Cycle
	(10:00-10:15	Coffee Break)
	12:00 – 1:00 pm	Lunch (provided)
	1:00 – 4:15 pm	Radiation and Risk
	(2:30-2:45	Coffee Break)
Day 2	7:45-8:30 am	Breakfast (provided)
	8:30 – 12:00 pm	Nuclear Myths and Reality
	(10:00-10:15	Coffee Break)
	12:00 – 1:00 pm	Lunch (provided)
	1:00 – 3:30 pm	Demonstrations / Question period / Panel Discussion
	4:00 – 5:30 pm	Special tour of the Energy archives and collections at the Canada Science and Technology Museum (transportation not provided – 10-min drive/taxi)