



Nuclear Technologies at NPPs with VVER Reactors

Objective

The objectives of the training are:

- Acquaintance of the students with main nuclear technologies currently used at various stages of civilian nuclear fuel cycle, beginning from mining of uranium ore and ending with using nuclear fuel in nuclear reactors.
- Acquaintance of the students with current state of main nuclear technologies at NPPs with VVER reactors.
- Acquaintance of the students with the threats caused by application of nuclear technologies for the environment and for nuclear non-proliferation regime.

Brief Curriculum

The topics, which will be covered are:

1. Concept of Nuclear Fuel for VVER Reactors.
2. Concept of Nuclear Fuel Cycle for VVER Reactors.
3. Mining and Primary Processing of Natural Nuclear Materials.
4. Uranium Isotope Enrichment.
5. Technologies for Fabrication of Fuel Rods and Fuel Assemblies.
6. Technologies for Use of Nuclear Fuel in Nuclear Reactors.

Target group

Higher school students in nuclear engineering



Qualification requirements

- B.S. degree in Nuclear Engineering, EQF level 5-6
- Good level of English

Host organisation

National Research Nuclear University MEPhI (Moscow, Russia)
Tel.: +7 (495) 788-5699 ext. 8539, E-mail: info@mephi.ru

Language

English

Duration

1 week (40 hours)

Contact details

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