



# Safety Aspects of VVER technologies

## Objective

To acquaint trainees with modern approaches for safety assurance at NPP with VVER-reactors. Further developing nuclear competencies related to VVER technology.

## Brief Curriculum

Day 1. "Basic norms and rules of nuclear safety", "State regulation of NPP safety", "Overview of NPP with VVER-1000/1200 reactors".

Day 2. "The basics of physical processes in VVER core", "VVER safety under normal operation conditions", "Modeling of abnormal VVER operation regimes".

Day 3. "Safety fundamentals of NPP with VVER-1000", "Practical classes on multi-functional simulator of VVER-1000".

Day 4. "Practical classes on multi-functional simulator of VVER-1000" (continuation).

Day 5. "Quality assurance at NPP operation", "Nuclear safety/security culture", "Examination", "Delivery of certificates".

## Target group

The course is designed for specialized training of nuclear professionals or students studying nuclear disciplines.



## Qualification requirements

The entry qualification level for trainees shall correspond to 2-3 or above (in a respective field of study) according to the European Qualifications Framework.

## Host organisation

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

## Language

English/Russian

## Duration

1 week (40 hours)  
23 hours of lectures and 17 hours of practical sessions

## Contact details

Nikolay Geraskin  
[NIGeraskin@mephi.ru](mailto:NIGeraskin@mephi.ru)