

Uppsala University, Dept. of  
Physics and Astronomy and  
Institute for Energy Technology (IFE), Halden

IFE



## Invitation to a course on the topic

Man-Technology-Organisation/Human Factors for safe operation in high risk domains, including Virtual Reality Resources as part of Safety Culture (6 ECTS)

The purpose of the course is to provide participants with a capability to account for the importance of human factors in modern technical system design and operations as well as raising awareness of risks associated with the negligence of critical human-technology-organisation (MTO) interfaces.

The main part of the course focuses on basic and fundamental MTO knowledge, including issues, theories, principles and practices related to MTO, interaction and Human Factor (HF) aspects for safe operation in high risk domains. It describes prevention of accidents, design and use of barriers, user centred design and systems development. In addition, participants will learn about the use of virtual reality tools in HF design work focused on human capabilities and limitations.

**For whom:** Working professionals within the nuclear industry, off-shore industry as well other organizations where MTO and human factors are of importance.

**Where:** The teaching will take place at the IFE premises in Halden.

**Duration:** The on-site teaching starts on Monday April 20 and finishes on Friday April 24 (5 days). Three weeks prior to, and three weeks after the on-site teaching course participants will have home assignments. The course will end with an oral exam between May 7 and May 13. The total workload is approximately equivalent to 4 weeks of full-time studies.

**Examination:** In order to complete the course and receive 6 ECTS credits, participants are obliged to actively attend all scheduled sessions and to fulfil each assignment given during the course.

**Fee:** SEK 60 000 excl. Swedish VAT (25%).

**More information and course registration:**

<http://nanss.uu.se/nanss-kurser/mto-hf-safety-culture/> or contact

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