

An introduction to Human Factors theory and methods in the Oil & Gas Industry



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Background

Course developed through workshops at HFC meetings 2006...

- Input from all participants especially Scandpower, HFS, NTNU

Organized by NTNU

- Formal part of Masters / PhD at NTNU
- 15 Study points, NTNU as individual or part of master degree
- Theory and approach approved by NTNU each year
- Teachers from academia, industry, research and consulting
- Course evaluated by participants – always positive written feedback

Performed in collaboration with HFS, NTNU, SINTEF, STATOIL...

- 10 days lecturing – three sessions (3 days, 4 days, 3days)
- Assignment – Project report (Specific cases)
- Fee NOK 25.000
- Spring 2015



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HF Themes

- Overview of Human Factors theories, standards and Norwegian regulation
- User based analysis – Functional analysis, Task analysis
- Case discussion – Integrated Operations, Remote Operations
- Safety I and Safety II - Crew Resource Management;

- Team Work, Organisational issues, Training, Procedures
- Workload assessment
- Human Machine Interface – Human Perception, Interaction design, Situational Awareness
- Control Centre Design (Remote operation), Workstation

- Safety Culture, Verification and Validation
- Human Resilience, Successful operations, Human Error



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