

# Mark Green: Human Factors Specialist.

## Human Centred Design

Address: Hjortsbergveien 8, 1784 Halden. Norway.  
Mobile: + 47 90 08 41 70  
E-mail: mark.green@hcd.no  
D.o.b: 31.10.62

## Key Work Skills

Human Factors Consultancy in a range of industries to ensure systematic, user-centred design of technical and organisational systems to enhance Human Performance. Work experience includes:

- Design of operator process control interfaces
- Design of large screen displays;
- Design of HMIs for work systems and web portals
- Verification and validation of HMIs;
- Control centre design;
- Training manual and procedure development;
- Identification of Human Performance issues;
- Presentation of HF training courses;
- Excellent facilitation and presentation skills.

## Details of Professional Experience

### 2000-2016 Human Factors Specialist, Human Centred Design

- HF Follow up for Catcher FPSO. BW Offshore.
- HF Lead for design of HMIs for Nyhamna Extension. Aker Solutions/Shell.
- HF Lead for analysis and design for the Large Screen Display for the Edvard Grieg platform. Aker Solution/Lundin.
- HF analysis and design for the Edvard Grieg platform Control Room Process control HMI. Aker Solution/Lundin.
- HF Lead Concept Studies for the Johan Sverdrup Field Complex. Aker Solutions /Statoil.
- HF Lead for the Concept study Johan Castberg platform. Aker Solutions /Statoil.
- HF Lead for detailed phase of the Control Suite Design and HMI. Eldfisk B platform. Aker Solution/ConocoPhillips.
- HF analyses for the FEED phase of the Edvard Grieg Platform. Aker Solutions/Lundin Petroleum.
- HF analyses for the Concept study HILD platform. Aker Solutions /Total.
- Evaluation of the Large Screen Display at the Ormen Lange Gas Plant. Norske Shell.
- Evaluation of the workload and impact of the Nyhamna Extension Concept on the Central Control Room (CCR) for the Ormen Lange Gas Plant. Norske Shell.

- Evaluation of the workload for the Subsea Pilot Plant Operations at Ormen Lange Gas Plant. Aker Engineering/Norske Shell.
- Human Machine Interface Guidelines for process control systems. Aker Solutions/ConocoPhillips.
- HF Lead for FEED phase of the Control Suite Design. Eldfisk B platform. Aker Solution/ConocoPhillips.
- Integrated Operations framework and requirements for Onshore Operations Centre. Aker Solutions/ConocoPhillips.
- HF analyses for the FEED phase of Eldfisk S including Control Room Design, process control interface design and Emergency Response functions. Aker Solutions/ConocoPhillips.
- HF analyses for both the FEED and Detailed engineering phase of Gjøa SEMI platform, including Control Room Design (CCR), process control interface design and Emergency Response functions. Aker Solutions/StatoilHydro/Gaz de France.
- HF advisor for Integrated Operations Valhall platform tilsyn. Petroleumstilsynet.
- CRIOP analysis and interface evaluation of Skarv FPSO. Aker Kvaerner/BP.
- Development of in-house Human Factors training course and materials for the Norwegian Petroleumstilsynet.
- Review and updating process control interfaces for the Kristin platform. Reinertsen Engineering/Statoil.
- Development and presentation of 3-day Human Factors training course and materials for S.E. Asia oil companies. Petrad.
- HF analyses of Offshore helicopter operations on Ekofisk. FEED phase study. Aker Kvaerner/Conoco Phillips.
- Air traffic control operations related to vectoring. Risk Assessment workshop. Acona/ Avinor.
- HF analyses related to Aerodrome Flight Information Services. Acona/ Avinor
- Development of Operator strategies and decision support for early sub-sea leak detection on Ormen Lange. Norske Shell.
- Development of work processes for monitoring and surveillance, using Integrated Operations, for the Ormen Lange sub-sea MEG system. Norske Shell.
- HF analyses for the detailed engineering phase of Ormen Lange CCR. Aker Kvaerner/Norsk Hydro.
- Development of Company guidelines and templates for HF methods. Statoil.
- HF leader for Kristin CCR. HF work for compliance with Norwegian Regulations and ISO 11064. Aker Kvaerner/Statoil.
- Job Descriptions, Training Requirements and Procedures for Kristin CCR. Statoil.
- Task Analysis of Sub Sea operations for Snøhvit CCR. Linde Engineering. Munich.

### **2001 Senior Information Architect/Usability Specialist. Framfab A/S Halden**

User requirements analysis, functional analysis and specification, information architecture, interface design and user testing.

- Development software systems for media monitoring. Observer Media.
- Development of numerous interfaces for web/software systems.

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**1996-2000 OECD Halden Reactor Project. Section Leader for the Human Factors Group. Halden, Norway**

Management of 15 HF staff for consultancy and research projects.

- Design and Evaluation of numerous system interfaces for Oil and Nuclear control rooms.
- Research into navigation within computerised systems.
- Human Factors adviser for a European Research Project on adaptive interfaces.
- Development of a tool for Verification and Validation of human factors aspects in control room upgrades. Swedish Nuclear Inspectorate.
- Development of a system for VDU-based presentation of operating procedures.

**1990 - 1996 Human Factors Consultant. Human Reliability Associates Ltd**

Responsible for project management, technical consultancy, development and presentation of training courses.

- Development of the HF Audit tool (HFAST). Exxon Oil Co.
- Emergency response system in an oil refinery. Shell, Stanlow, UK.
- Incident Investigation in the chemical process industry. Shell, Stanlow, UK.
- Evaluation and design of the interface for train driver's control systems. Network South East.
- Identification of factors influencing human performance for error reduction. Course on accident investigation. Electricity Supply Board, Ireland.
- Reduction of Accidents in the Construction Industry. Health and Safety Executive.
- Human Error identification in batch processing. Coates Ltd.
- Identification of Human Error causes and development of a comprehensive system for the writing, testing and monitoring of procedures within the Chemical process industry. Allied Colloids.
- Human reliability in maintenance systems. European Space Agency.
- Development of a comprehensive system for the writing, testing and monitoring of procedures within the Chemical Process Industry. Allied Colloids, UK.

**1979-1986 Maintenance Engineer**

Maintenance Engineer on a variety of chemical plants.

**Main Qualifications**

M.Sc. (Eng.) Work Design and Ergonomics.

B.Sc. (Hons) Psychology. First Class.

H.N.C. Mechanical and Production Engineering.

H.N.C. Plant Engineering.

BTEC. Plant Engineering.

**Professional Bodies**

- Member of the Human Factors and Ergonomics Society.

## Languages

- Native English.
- Norwegian.