

A Practical Introduction to the Functional Resonance Analysis Method (FRAM) 1-day Course at NTNU, Friday September 5, 2008

Objective

The objective of this short course is to make participants familiar with the theoretical foundation and practical use of FRAM as an accident analysis and risk analysis method.

Prerequisites

Basic knowledge in accident investigation and risk analysis; some experience with human factors and/or organizational safety will be useful.

Course Description

Accident investigation and risk analysis are essential activities in a Safety Management Systems. The experiences from many different domains have made clear that current methods on the whole are unable to represent the complex dynamics and dependencies that characterize today's socio-technical systems. Investigation boards are also becoming aware of how the models behind the methods can influence the understanding of the accident and affect the following recommendations. FRAM has been developed as a response these changes, to help increase our understanding of complex industrial environments by considering them as open dynamic systems and emphasise the interactions among the functions that make up the system.

Course Contents

- The need of improved accident and risk models
- Principles of systemic models FRAM (model) relative to established accident and risk models
- Presentation and explanation of FRAM (method)
- The step-by-step use of FRAM for accident analysis and risk analysis
- Practical exercises

Target Group

Personnel involved in accident investigation, risk analysis or safety management related to different industries (industry and regulators)

Lecture and Exercises

Lecture and group work

Language

The course language is Norwegian (Scandinavian), with some examples provided in English.

Course Material

Lectures in pdf format will be provided

Examination

No examination

Academic staff

Responsible Professor

- Professor Erik Hollnagel

Industrial Safety Chair

MINES Paris Tech - Centre for Research in Risk and Crises, Sophia Antipolis, France

Prof. II Norwegian University of Science and Technology (NTN)

Since 1971, Erik Hollnagel has worked at universities, research centres, and industries in several countries and been exposed to problems from several domains, e.g., nuclear power production, aerospace and aviation, software engineering, healthcare, and land-based traffic. He has published widely including thirteen books, some recent titles being "Resilience Engineering Perspectives, Vol. 1: Remaining Sensistive to the Possibility of Failure" (Ashgate, 2008), "Resilience Engineering" (Ashgate, 2006), and "Barriers and Accident Prevention" (Ashgate, 2004). Erik Hollnagel is, together with Pietro C. Cacciabue, Editor-in-Chief of the international journal of Cognition, Technology & Work

- PhD Students

Ivonne Herrera, Camila K. Tveiten and Rogier Woltjer

Practical Information

Time

Friday September 5, 2008 09:00 – 16:30

Place

NTNU Gløshaugen, Gamle Fysik 2. etg. 7491 Trondheim

Application Deadline

15 August 2008

Course fee

NOK 3000 excl moms

Accommodation and Transport

Course participants are responsible for their own hotel reservations and transport to NTNU

Informal dinner

An informal dinner is scheduled the evening prior to the course (not included in the course fee)

Questions regarding the course could be addressed to Ivonne Herrera or Camilla K. Tveiten

Registration Form
Functional Resonance Analysis Method (FRAM)
1-day Course at NTNU, Friday September 5, 2008

**Please submit your registration by 15.08.2008 to ivonne.a.herrera@sintef.no
camilla.k.tveiten@sintef.no**

Name _____

Title: _____

Organisation: _____

Phone: _____

Fax: _____

E-mail: _____

Invoice address: _____

Invoice reference: _____

Participate in the informal dinner 4. September kl: 19:30 YES: NO: