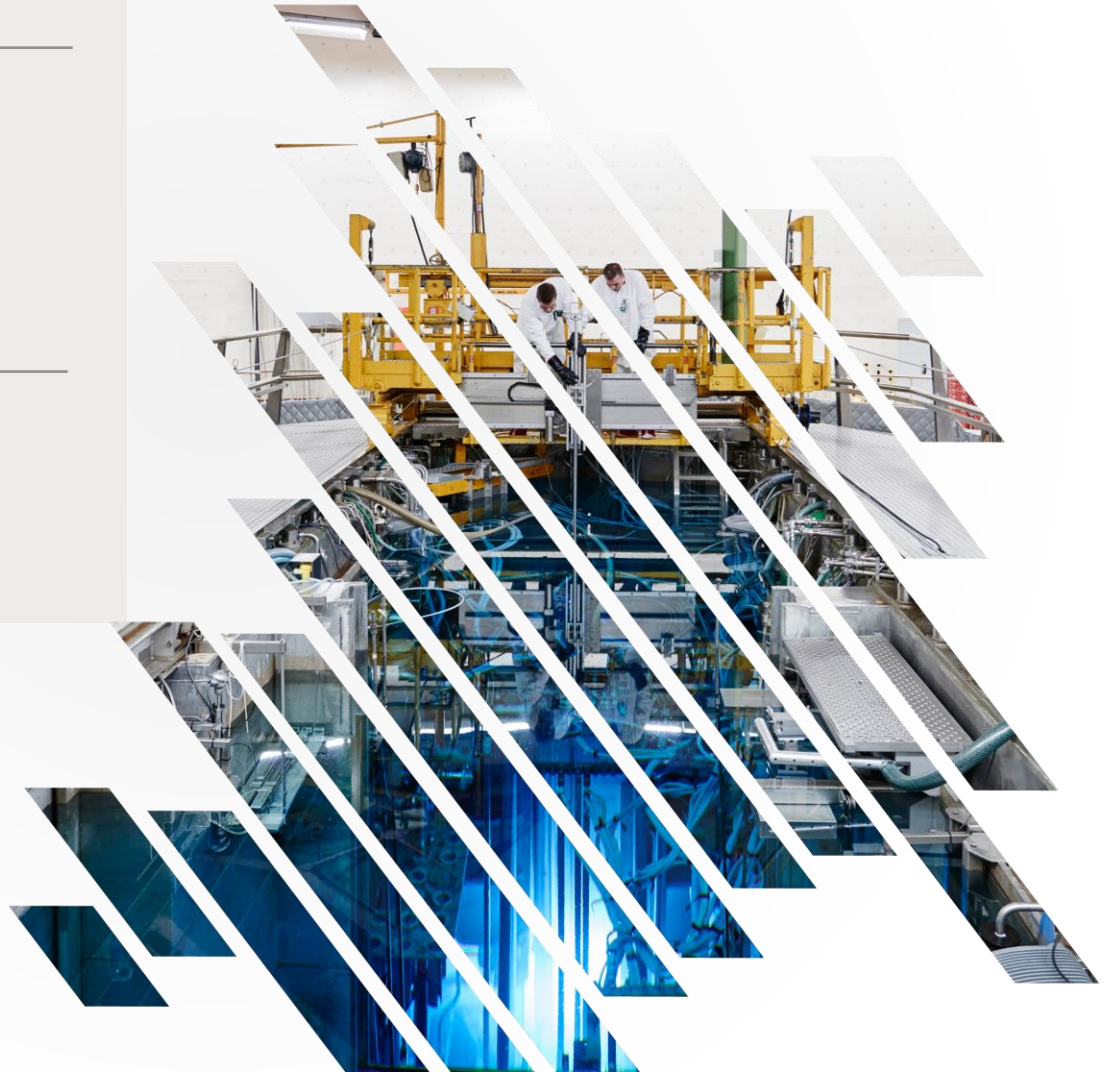
WRITING TRAINING PROGRAMMES IN A NUCLEAR ORGANISATION

Heleen van Elsäcker-Degenaar



WHY TRAINING PROGRAMMES?

- **Organization needs**
  - Educated and Trained employees
  - Costs
  - Administrative issues

LITERATURE

- **National regulations**
  - NVR 3.2.1 (Nuclear Safety Regulations)
- **IAEA guidelines**
  - IAEA NS-G-4.5 *The operation organization and the recruitment, training and qualification of personnel for research reactors*
  - IAEA NS-G-4.2 *Maintenance, periodic testing and inspection of research reactors*
- **Other Guidelines**
  - ANSI/ANS-8.20-1991: *Nuclear Criticality Safety Training*
  - DoE document DOE-STD-1173-2009: *Criticality Safety Functional Area Qualification Standard*
  - ANSI/ANS-8.26-2007 (R2012): *Criticality Safety Engineer Training and Qualification Program*

CHAPTERS OF TRAINING PROGRAMMES

- **Introduction**
  - Function
  - Task
- **Quality programme**
- **Learning objectives**
  - State the expected performance of trainees
  - Training materials support learning objectives
  - Couple learning objectives to training events
- **Type of training method**
  - Classroom instruction
  - Self-study
  - Laboratory training
  - Workshop training
  - On the Job Training
- **Type of assessment**
  - Written examination
  - Oral questioning
  - Demonstration of performance
  - Documented for each trainee

LEARNING OUTCOMES

Literature survey

- **National**
  - NVR 3.2.1 (Nuclear Safety Regulations)
- **IAEA guidelines**
  - IAEA NS-G-4.5 The operation organization and the recruitment, training and qualification of personnel for research reactors
  - IAEA NS-G-4.2 Maintenance, periodic testing and inspection of research reactors

Field survey

- **Reactor manager**
- **Reactor safety engineer**
- **Reactor RPE / RPO**
- **Reactor engineer**
- **Reactor Safety Commission**

CHAPTERS OF TRAINING PROGRAMMES

- **Introduction**
  - Function
  - Task
- **Quality programme**
- **Learning objectives**
  - State the expected performance of trainees
  - Training materials support learning objectives
  - Couple learning objectives to training events
- **Type of training method**
  - Classroom instruction
  - Self-study
  - Laboratory training
  - Workshop training
  - On the Job Training
- **Type of assessment**
  - Written examination
  - Oral questioning
  - Demonstration of performance
  - Documented for each trainee

OTHER CHAPTERS

Costs

- Trainers
- Material
- Number of participants
- Number of courses
- Duration of course

Planning

Literature

TRAINING PROGRAMMES AT NRG

Reactor manager
Reactor maintenance
Criticality (whole organisation)
External maintenance for hot laboratories
Emergency and response organisation

AND THEN….

Training programme written
Authorisation of the training programme by nuclear safety manager
Budget for the training programme
Organisation of the training programme
Trainees for the training programme
Documentation of followed modules
Certification
Authorisation of the trainee by the nuclear safety manager

QUESTIONS?