PROFESSIONAL MODULE BASED TRAINING IN NUCLEAR ENGINEERING

Dr. John Kettler, Andreas Havenith, Jessica Lethen
AiNT GmbH, Aachen, Germany

NESTet 2013, 17-21 November, Madrid, Spain
CONTENT

- Who is AiNT?
- Developments in Nuclear Technology in Germany
- Maintaining & Build-up of Competence
- E&T Programme
- Guidelines & Assets

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WHO IS AINT?

Spin-off of the RWTH Aachen university
Independent company

Purpose of activities:
Maintaining and building up competence in nuclear technology
Platform for innovative strategies
DEVELOPMENTS IN NUCLEAR TECHNOLOGY IN GERMANY

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DEVELOPMENTS IN NUCLEAR TECHNOLOGY IN GERMANY

1950s and 1960s: establishment of major nuclear research centers
→ e.g. in Karlsruhe and Jülich near Aachen

Advanced R&D landscape developed
→ Nuclear technology became key technology

Since the 1980s: change in social and political attitudes towards nuclear technology
→ Research infrastructure for nuclear technology is brought down

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Source: Karlsruhe Institute of Technology
Demonstration at Gorleben Site

01.01.2011: Extension of operation time (NPPs)

11.03.2011: Fukushima accident

15.03.2011: Moratorium (3 months)

08.07.2011: Final decision of the Federal Council to shut-down all NNPs
Decrease in financial support for R&D
KNOW-HOW TRANSFER

Students

Trainees

Industry

Experts

Education & Training

Work-Experience

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MAINTAINING & BUILD-UP OF COMPETENCES

Competence in Nuclear Engineering

University & Research-Institutions

Industry - Training on the Job

AiNT E&T-Programme

Students, Young Generation, Career Changers

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E&T PROGRAMME

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COURSE-MODULE-STRUCTURE

1. Nuclear Engineering I – Science and Technology
2. Nuclear Engineering II – Safety and Radiation Protection
3. Preparation for Public Hearings/Public Participation
4. Approval and Supervisory Procedure According to the Law
5. Decommissioning and Dismantling of Nuclear Facilities
7. Transport of Radioactive Waste
8. Gamma Spectroscopy

Experts with specified knowledge

Staff of authorization departments

Participants with little or no basic knowledge

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COURSE IMPRESSIONS

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PRACTICAL TRAINING
WORKFLOW FOR E&T

I DETERMINATION OF DEMAND
- INDUSTRY
- REGULATION AUTHORITIES
- R & D

II CONCEPTUAL DESIGN & PREPARATION
- CONTACT TO LECTURERES
- DEVELOPMENT OF THE CONTENT
- ORGANISATION
- MARKETING

III REALIZATION OF THE EVENT
- THEORETICAL PART
- PRACTICAL PART
- EXAMINATION
- CERTIFICATE

IV FOLLOW UP
- FEEDBACK
- ADJUSTMENT OF PROGRAMME

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INDIVIDUAL TRAINING

- Providing customized content
- Adapted to individual skills
- Flexibility regarding time and duration
- Training on the job with existing equipment

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CONFERENCES AND SYMPOSIA

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GUIDELINES & ASSETS

- Skill-based solution for new and experienced staff
- Pool of 65 highly qualified lecturers
- Intensive learning (2-5 days)
- Theoretical units and practical tasks
- Annual adaptation of the programme to the requirements in: technology, politics, research, law and safety regulations
- Individual training courses
- Content development and organisation of conferences

THANK YOU FOR YOUR ATTENTION!

www.nuclear-training.de
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