Nuclear Security Collaborative Networks

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Capacity Building for Nuclear Security

**Comprehensive Training Programme**
*Objective:* To raise awareness, to fill gaps between the actual performance of personnel and the required competencies and skills and, to build-up qualified instructors/trainers

**Nuclear Security Support Centres**
*Objective:* To support member state capacity in nuclear security through human resource development, technical and scientific support

**Nuclear Security Education**
*Objective:* To support the development of teaching material, faculty expertise and preparedness, and the promotion of nuclear security education in collaboration with the academic and scientific community

**Ultimate Goal:** To develop capabilities for supporting sustainable implementation of the international legal instruments and IAEA guidelines for nuclear security worldwide, and to foster nuclear security culture.
To achieve this goal, the Division of Nuclear Security helped establish and maintain two international networks:

- International Nuclear Security Education Network (INSEN) – 2010
- International Network of Nuclear Security Training and Support Centers (NSSC) – 2012
International Nuclear Security Education Network (INSEN) established in 2010

A partnership between the IAEA and universities, research institutions and other stakeholders

- Promotion of nuclear security education
- Development of educational materials
- Professional development for faculty members
- Collaborative research and resource sharing

Mission: to enhance global nuclear security by developing, sharing and promoting excellence in nuclear security education
INSEN membership is informal and open to any educational and research institution already involved or planning to be involved in nuclear security education in the future, or any competent authority that is interested or involved in nuclear security education.
INSEN on the Map – 130+ institutions from 49 MS
INSEN Structure: Working Groups

I. Develop Educational Materials
- Coordinate the development of peer-reviewed textbooks and instructional materials
- Incorporate results of nuclear security research in instructional materials

II. Promote Faculty Development and Student Exchange
- Promote faculty professional development and cooperation among educational institutions
- Assist in curriculum development
- Establish a mechanism to facilitate the exchange of students, faculty, and researchers

III. Promote Nuclear Security Education
- Promote nuclear security education
- Promote INSEN
- Provide materials to be uploaded on the NUSEC portal
Role of the IAEA: INSEN

- Support INSEN activities (subject to availability of funds)
- Facilitate collaboration among WGs and all members
- Coordinate membership applications, Organize one annual and one WG meetings every year
- NUSEC Portal
UCLan Nuclear provides regulatory and operational know-how in academia
(Uiversity of Central Lancashire, UK)

Courses and training available autumn 2013. We are pleased to announce a suite of
Masters level courses for those looking to join the nuclear industry and for those in the
industry looking to extend t ...

International Best Practice Workshop on Effective Integration of Physical
Protection & Cyber Security (Amsterdam, The Netherlands)

Nuclear materials and nuclear facilities cannot be considered secure if the interface
between those people responsible for every ...

East Asia and Asia Pacific Regional Conference (Kuala Lumpur, Indonesia)

INSENS will be hosting its first East Asia and Asia Pacific Regional Conference in Kuala
Lumpur, Malaysia. The conference will bring together established experts and emerging
specialists from a number ...
IAEA supporting a pilot M.Sc. Programme on Nuclear Security based on NSS No 12 Educational Programme in Nuclear Security

**Participating Institutions**
- Technical University of Delft, The Netherlands
- Fachhochschule Brandenburg, Germany
- Technical University Vienna, Austria
- University of Oslo, Norway

**Implementation**
- Launch of accredited Nuclear Security Master Programme: March 2013
- First graduation: December 2014
- Basis of teaching material: INSEN peer reviewed material, supported by IAEA Nuclear Security Fund

Supported by the IAEA & the European Commission
Master of Science in Nuclear Security

18 April 2013 - Director General Amano at the Delft University of Technology in the Netherlands
Objectives:

- Promote a high level of nuclear security training and support services for sustainable national, regional and global nuclear security
- Facilitate cooperation and assistance activities (including technical and scientific), to optimize the use (and leveraging) of available resources to meet specific needs.
- Contribute to the development of nuclear security training standards

Membership:

- Membership is open to all IAEA Member States, observers to the IAEA and other relevant stakeholders involved, or planning to be involved, in the provision of training and/or technical and scientific support in the area of nuclear security. Any of these groups can request membership through their official established channels to the IAEA.
NSSC on the Map – 50+ institutions from 49 MS
NSSC Structure: Working Groups

- A. Coordination and collaboration
- B. Best practices
- C. Information Management and Other Emerging Issues
Role of the IAEA: NSSC Network

Support NSSC activities (subject to availability of funds)

Facilitate collaboration among WGs and all members

Coordinate membership nominations, Organize one annual and one WG meetings every year

Next Annual NSSC meeting 23-25 February 2015
Assistance in Establishing NSSC

- Methodology on how to establish and maintain a NSSC
- Methodology on how to assess training needs
- Development of tailored national nuclear security training programme
- Preparation of instructors
- Facilitation of training for technical and scientific support
- Provision of technical equipment (on a limited basis)
Informal Network of Points of Contact (POCs) of Integrated Nuclear Security Support Plans (INSSPs)
The overall objectives of an INSSP are:

- to identify and consolidate the nuclear security needs of an individual State into an integrated document that includes the necessary nuclear security improvements, as well as

- to provide a customized framework for coordinating and implementing nuclear security activities conducted by the State concerned, the IAEA and potential donors.
Generalization of INSSPs for all countries receiving Agency nuclear security assistance (110+)

- 67 INSSPs approved and under implementation
- 19 INSSPs finalized and pending MS approval
- 18 INSSPs drafted and awaiting finalization meetings
- 16 INSSPs to be developed, if accepted
Unique informal network of nuclear security competent authorities in 100+ States

Approved, finalized or drafted INSSPs (104)

- Africa: 45
- Europe: 17
- Asia & Pacific: 28
- Latin America: 14

INSSPs to be developed (16)

- Africa: 1
- Asia & Pacific: 4
- Latin America: 10
- Europe: 1

IAEA
Through INSSP POCs...

- Organize regional / sub-regional workshops to discuss common issues and to share **good practices** in developing and implementing INSSPs, covering all aspects of nuclear security.

- **Three WS in 2013**: Malaysia, Botswana, Morocco
- **Three WS in 2014**: Ghana, Indonesia, Moldova
- **Five WS are planned in 2015 for**:
  - Members of the FNRBA – Tanzania, March
  - Arabic-speaking States – Egypt, April
  - Pacific Island States – Fiji, May
  - Member States in South-East Asia – Thailand, August
  - Member States from the Gulf – Vienna, Q4
Through INSSP POCs…

• Disseminate early information of IAEA nuclear security activities (regional and international training courses, major meetings/conferences, etc.)

• Provide POCs with extra opportunities / support to participate in IAEA international conferences in the field of nuclear security:
  ➢ Nuclear Security Conference in July 2013
  ➢ Nuclear Forensics Conference in July 2014
  ➢ Computer Security Conference in June 2015
IAEA Contacts

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