



60 Years

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Atoms for Peace and Development

IAEA new approach on Capacity Building for Nuclear Safety

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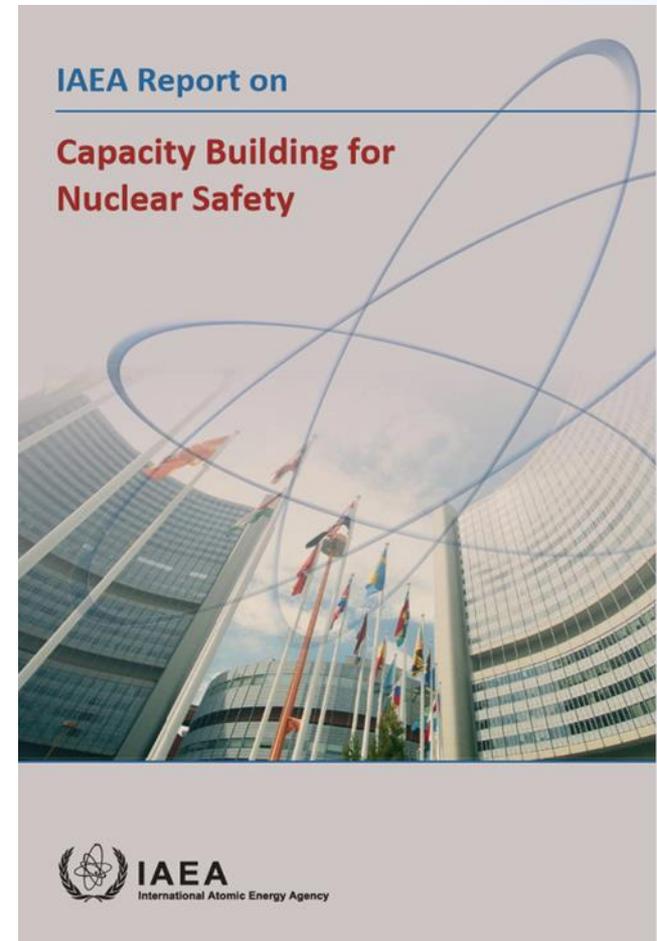
- **Self-Assessment on Capacity Building**

Concept, Process, Application

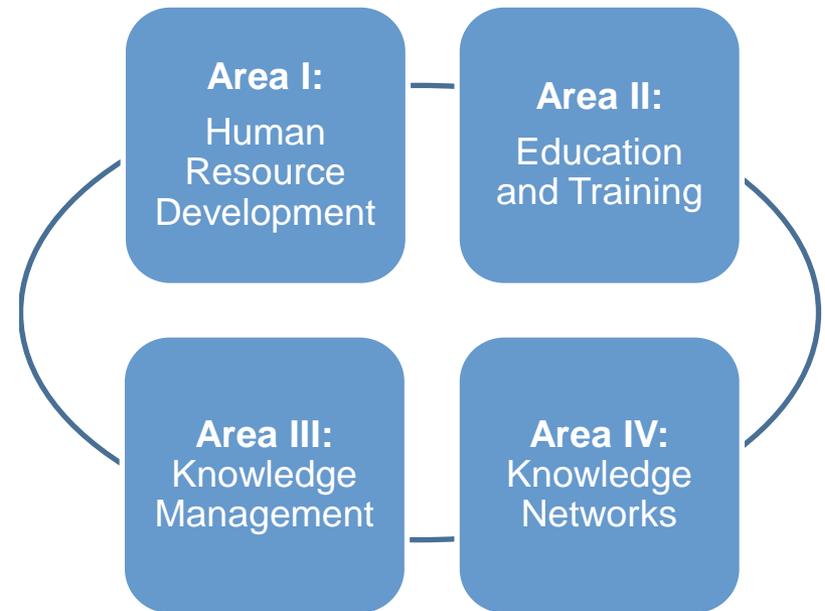
Background

Ensuring a sustainable supply of competent human resources capable of applying nuclear technologies in a safe, responsible and sustainable manner.

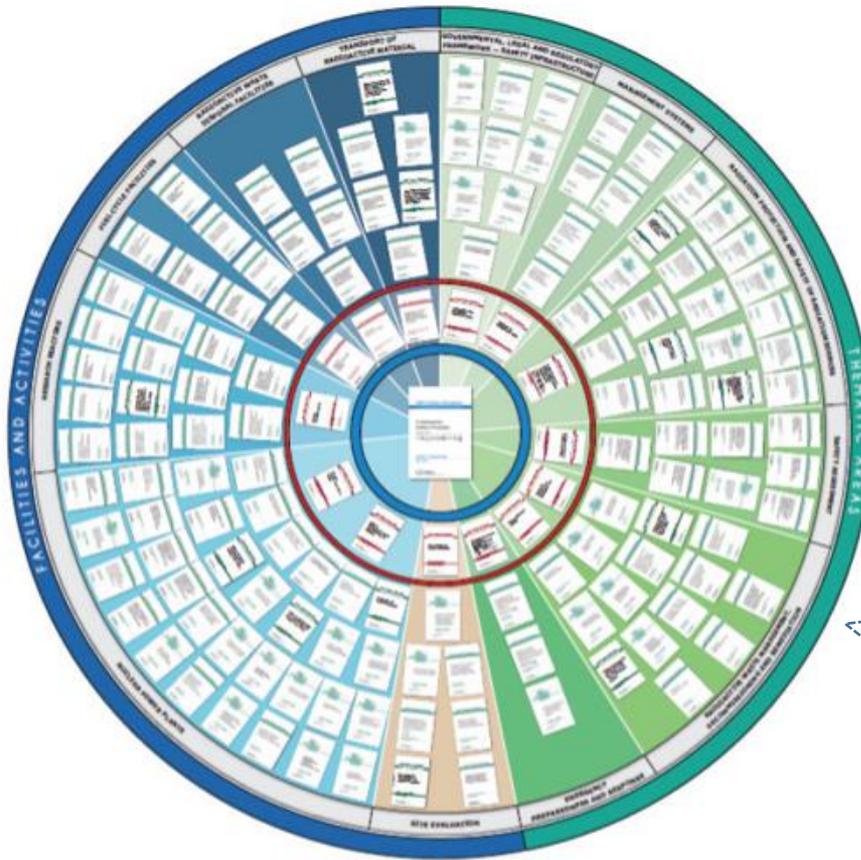
A systematic and integrated approach to develop and continuously improve the governmental, organizational and individual competencies and capabilities necessary for achieving safe, secure, and sustainable use of nuclear



Element of Capacity Building



IAEA Support for Members



IAEA Safety Standards

Establish its Standards of Safety for Protection of health and minimization of danger to life and property

- IAEA Statute Article III

Provide guidance and reference to help Member States establish, maintain and improve nuclear safety and radiation protection framework

IAEA Support for Member States

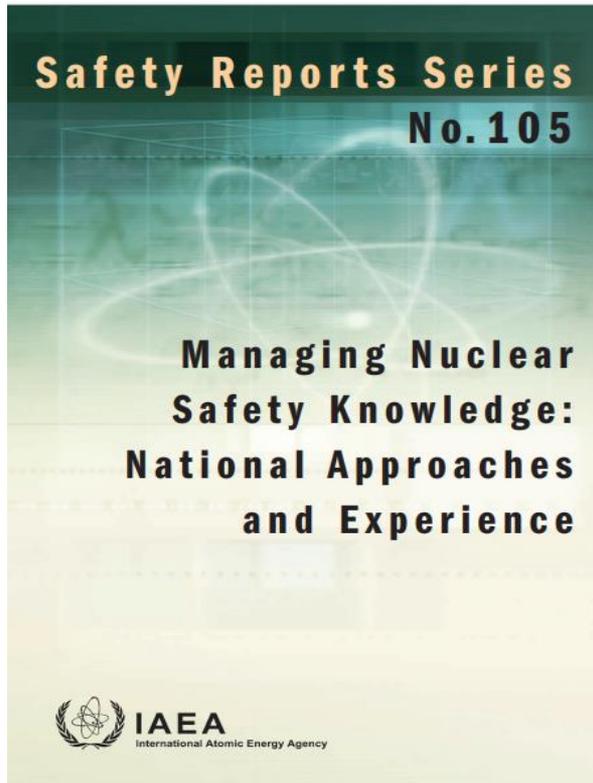
Department of Nuclear Safety and Security, IAEA

- ✓ Nuclear Installation Safety
 - ✓ Nuclear Security
- ✓ Radiation, Transport & Waste Safety
- ✓ Emergency Preparedness and Response

In accordance with IAEA Safety Standards



IAEA Support for Member States



GNSSN

Global Nuclear Safety and Security Network

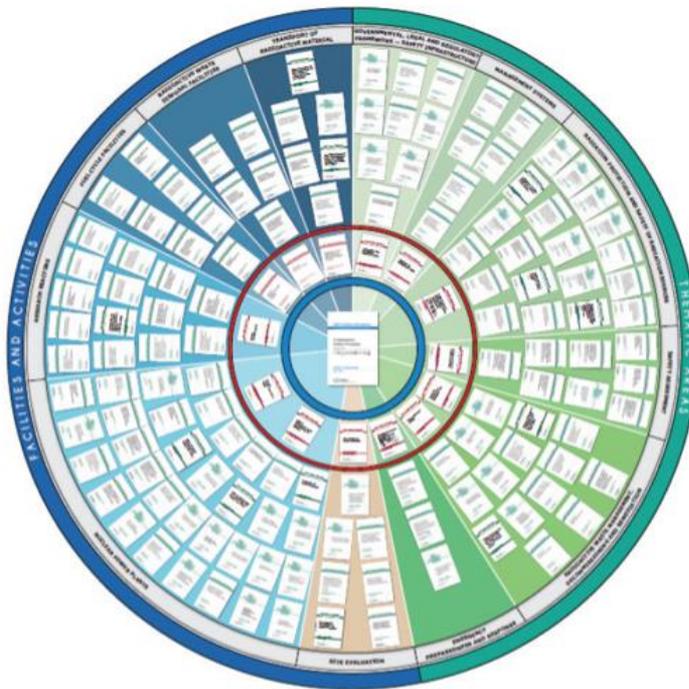
Connect, Communicate and Collaborate: a worldwide gateway to help Member States build a smarter, safer planet.



FNRBA

Self Assessment on Capacity Building

*Whether the responsible government equipped with **Capacity Building Plan & Infrastructure** in line with IAEA Safety Standard?*



Fundamental Safety Principles:

“The regulatory body must have adequate legal authority, technical and managerial **competence, and human and financial resources** to fulfil its responsibilities”

“The licensee is responsible for establishing and maintaining the **necessary competences**”

- IAEA Safety Requirements No. GSR Part 1 (Rev. 1) on Governmental, Legal and Regulatory Framework for Safety requires that “The government shall make provisions for **building and maintaining the competence of all parties** having responsibilities in relation to the safety of facilities and activities” (Requirement 11). Furthermore, GSR Part 1 (Rev. 1) underpins the importance of **knowledge networks** in Requirement 15 on sharing of operating experience and regulatory experience.
- IAEA Safety Requirements No. GSR Part 2 on Leadership and Management for Safety requires that:
 1. “Senior management shall determine the **competences and resources** necessary to carry out the activities of the organization safely and shall provide them” (Requirement 9);
 2. “The **knowledge and the information** of the organization shall be managed as a resource” (Paragraph 4.27 under Requirement 9).

IAEA Safety Standards

for protecting people and the environment

Governmental, Legal
and Regulatory
Framework for Safety

IAEA Safety Standards

for protecting people and the environment

General Safety Requirements

No. GSR Part 1 (Rev. 1)



Leadership and
Management for Safety

General Safety Requirements

No. GSR Part 2



IAEA Safety Standards

for protecting people and the environment

Radiation Protection and
Safety of Radiation Sources:
International Basic
Safety Standards

Jointly sponsored by
EC, FAO, IAEA, ILO, OECD/NEA, PAHO, UNEP, WHO



General Safety Requirements Part 3
No. GSR Part 3



IAEA Safety Standards

for protecting people and the environment

Preparedness and Response
for a Nuclear or
Radiological Emergency

Jointly sponsored by the
FAO, IAEA, ICAO, ILO, IMO, INTERPOL,
OECD/NEA, PAHO, CTBTO, UNEP, OCHA, WHO, WMO



General Safety Requirements
No. GSR Part 7



- IAEA Safety Requirements No. GSR Part 3 on Radiation Protection and Safety of Radiation Sources requires that the employers, registrants and licensees ensure, inter alia, that “suitable and adequate human resources and appropriate training in protection and safety are provided, as well as periodic retraining as required to ensure the necessary level of competence” (Paragraph 3.76 (h) under Requirement 21).
- IAEA Safety Requirements No. GSR Part 7 on Preparedness and Response for a Nuclear or Radiological Emergency states that “The government shall ensure that overall organization for preparedness and response for a nuclear or radiological emergency is clearly specified and staffed with sufficient personnel who are qualified and are assessed for their fitness for their intended duties” (Requirement 21).
- Other IAEA Guides cover these four (4) inter-dependants as well.

Self Assessment on Capacity Building

Methodology for Self-Assessment of Capacity Building for Nuclear, Radiation, Transport and Waste Safety and Emergency Preparedness and Response (Being developed)

Objective:

To support and assist Member States to develop its capacity building plan in a comprehensive and holistic way, in line with the relevant IAEA Safety Standards

To help identify and understand the needs, the required resources and gaps in the Four Elements of Capacity Building. It aims for the government and/or those stakeholders with roles in developing and supporting capacity building activities

Self Assessment on Capacity Building

Stakeholders

Government/Regulatory bodies, Technical Support Organization,
Authorized parties (Licensees), Education and Training Institutions

Structure of Self-assessment

Policy and Strategy
Human Resource Development
Education and Training
Knowledge Management
Knowledge Networks

What is needed
Reference to Safety Standard
What is available
Action by the stakeholder
IAEA support

Identification of the **key stakeholders** who will be responsible for completion of the self assessment methodology



The **completion of the questionnaire(s)** by the stakeholders

- a. **what is needed** in each area (such as radiation, nuclear, EPR)
- b. what is **available and adequate** to meet the needs?
- c. what **action needs** to be taken to fill the gap?

e.g.) Does the Government have a national policy and strategy for education and training?



The analysis of the completed questionnaire and the drawing up of **a report giving the conclusion of the review and proposing recommendations** where needed



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Thank You!

