



Nuclear  
Energy

# E-learning for Nuclear Newcomers

An interactive e-learning series on  
nuclear power infrastructure development

## Implementing a Nuclear Power Programme



## National Position



## Feasibility Study



## Safety Infrastructure



## Culture for Safety



## Management of a Nuclear Power Programme



## Management Systems



## Construction Management



## Legal Framework

IAEA Legal Framework  
Introduction - Definition and objective of nuclear law

### What is Nuclear Law?

Nuclear law is defined as:  
The set of legal rules that govern the activities of nuclear energy, including the production, transport, use, and disposal of nuclear materials and facilities, and the protection of the public and the environment from the hazards of ionizing radiation.

Key elements of nuclear law include:  
1. Regulatory framework  
2. Licensing and safety  
3. Liability  
4. Enforcement

## Introduction to Safeguards

IAEA Safeguards Introduction  
What are IAEA safeguards?

The objectives of safeguards are to ensure that nuclear energy is used for peaceful purposes only, and to prevent the diversion of nuclear materials and facilities to military purposes.

Key elements of IAEA safeguards include:  
1. Verification  
2. Accounting  
3. Reporting

## Developing a Human Resource Strategy

IAEA Developing a human resource strategy  
Welcome to the human resources development module

The module is designed to help you develop a human resource strategy for your organization. It covers the following topics:  
1. The importance of human resources  
2. The role of human resources in the organization  
3. The process of developing a human resource strategy

## Systematic Approach to Training (SAT)

IAEA Systematic Approach to Training (SAT)  
Overview of SAT

The SAT is a systematic approach to training that is based on the following principles:  
1. Needs analysis  
2. Learning objectives  
3. Content development  
4. Delivery  
5. Evaluation

## Stakeholder Involvement

IAEA Developing Stakeholder Involvement Strategy  
Welcome to the stakeholder involvement module

The module is designed to help you develop a stakeholder involvement strategy for your organization. It covers the following topics:  
1. The importance of stakeholder involvement  
2. The role of stakeholder involvement in the organization  
3. The process of developing a stakeholder involvement strategy

## Siting

IAEA Siting  
Welcome to the Siting module

The module is designed to help you develop a siting strategy for your organization. It covers the following topics:  
1. The importance of siting  
2. The role of siting in the organization  
3. The process of developing a siting strategy

## Emergency Preparedness and Response

IAEA Emergency Preparedness and Response  
What is EPR?

EPR is the process of preparing for and responding to a nuclear emergency. It involves the following activities:  
1. Risk assessment  
2. Emergency planning  
3. Emergency response

## Spent Fuel and Radioactive Waste Management

IAEA Spent Fuel and Radioactive Waste Management  
High activity waste

High activity waste (HAW) is a type of radioactive waste that is highly radioactive and has a long half-life. It is produced during the operation of nuclear reactors and is a major challenge for waste management.

## Industrial Involvement

IAEA Industrial Involvement  
Total and local industrial involvement

The module is designed to help you develop a strategy for industrial involvement. It covers the following topics:  
1. The importance of industrial involvement  
2. The role of industrial involvement in the organization  
3. The process of developing a strategy for industrial involvement

## Procurement for Nuclear Facilities

IAEA Procurement for Nuclear Facilities  
So why is procurement important in the nuclear industry?

Procurement is a critical activity in the nuclear industry, and it is essential for the successful operation of nuclear facilities. It involves the following activities:  
1. Procurement strategy  
2. Procurement process  
3. Procurement management



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