TRANSPORT OF RADIOACTIVE MATERIAL

It is important that the activities and competences of a Competent Authority directly relate to the industries over which it has responsibilities for regulatory oversight.

The ambition of a Competent Authority for transport of radioactive material should be to develop its activities and capabilities in each of the 12 elements of a Competent Authority Compliance Assurance Programme (the Compliance assurance circle –TS-G-1.5) as appropriate.

Depending on the specific organisation in the Country, the responsibilities of the CA for transport of RAM might be shared between different entities in the government structure. The entity acting as CA for TRAM might also have additional duties, for example oversight of radiation protection or waste management. These additional competences are not addressed by this training course.

Add: Videos on Transport, Rad Protection, Waste, Medical, EPR, etc

TRAINING PROGRAMME OVERVIEW

A. LEVEL OF ACTIVITIES IN A COUNTRY:

The first step for the CA is to be aware and understand the actual situation in its own country: regarding the industry using radioactive material.

LEVEL OF REQUIREMENTS FOR COMPETENT AUTHORITIES.docx

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>MEDICAL</th>
<th>INDUSTRIAL</th>
<th>AGRICULTURAL</th>
<th>MINING</th>
<th>NUCLEAR</th>
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B. ASSESSMENT OF ITS OWN NEEDS BY COMPETENT AUTHORITY

Once the CA is fully familiar with the situation in its own country regarding the level and type of activities of the industry using RAM, it should assess the strength and gaps of its regulatory infrastructure by carry out a self-assessment in RASIMS/SARIS;


Within their respective Regional Network for TRAM,

- countries should enter a “peer review” exercise of their Self-assessment,
- develop a National Plan of action to strengthen their regulatory infrastructure and improve their operational regime.
C. TRAINING NEEDS

Each competent authority should establish and maintain a programme for training its own employees. The training provided should be sufficient to ensure consistency in the application of the Transport Regulations. Training should be carried out at an early stage in the development of the industry for the transport of radioactive material (ref TS-G-1.5).

The training programme should take into accounts the gaps identified in the National Plan of action for the transport of RAM.

The training modules below have been developed with the help of members of TRANSSC. They are indented as the essential basis for the training of staff of the CA.
The Training modules

I. General introductory modules

(Staff of CA, irrespective of their operational role, should be familiar with these modules)

11. GENERAL OVERVIEW OF CAs ACTIVITIES
   • The Basic Model: Modules A,B,C. (see CLP4NET)

12. THE COMPLIANCE REGIME
   • The Core Model. (see CLP4NET)

13. COMMON BASIC REQUIREMENTS
   • Licences
   • Import/export/transit requirements

II. Specialized Modules

Modules in green and orange should be mandatory a

21. Level 1

Situation in Country: only transport of radiopharmaceuticals, RAM for diagnostics, low level sources (no B package)

Knowledge of situation in State: inventory, Location, users

Identify Import, Export and Transit requirements for transport

Emergency Plan adapted to Country is in place

CA performs “administrative-paper” verifications

RED: module not required.

GREEN: module required

ORANGE: module partially required
22. Level 2

**Situation in Country:** Same as for level 1 plus transport of large sources (B package). No manufacturing or maintenance of packages in Country, no transport of fissile material, no approval of packages by CA required

Import Export Transit of large sources

Verify validity of certificates

*CA performs basic inspections of consignors, carriers, holders of RAM (radiation protection programme, management system)*

*Code of Conduct is in place*

*Emergency plan in place according of risk in Country*

*CA has management system in place according to needs*

![The compliance assurance circle – TS-G-1.5](image)

23. Level 3

**Situation in Country:** Same as level 2 plus maintenance of packages

*CA perform inspections related to maintenance of packages*
24. Level 4

**Situation in Country:** same as level 3 plus manufacture of packages in country and approval of some package designs or shipments (and other items) by CA required, no transport of fissile material

CA needs expertise in approval of packages design, certain shipments, etc

25. Level 5

**Situation in Country:** full range of transport activities including nuclear
26. Additional advanced Modules

- Assessment of licences applications
- Verify Radiation Protection Programmes
- Code of Conduct
- Package design safety report
- Inspection guidance
Present content of CLP4NET

- **TRANSPORT OF RADIOACTIVE MATERIAL**

  - **OVERVIEW OF TRAINING PROGRAMME** File 186.2KB

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**Course Content**

**TRAINING COURSE for STAFF of COMPETENT AUTHORITIES**

**OBJECTIVE:** Presentation of the Compliance Regime for the Safe Transport of Radioactive Material for Staff of the Competents Authorities

**CONTENT OF COURSE**

1. **The Basic Model**

   The Basic Model outlines a simple structure for the activities of the CAs.

   It contains three modules : Module A, B and C.

2. **The Core Model**

   The Core model presents the 12 elements of the Compliance Regime from IAEA Standards

3. **The Specialised Modules**

   The specialised modules describe in more details the 12 elements of the Core Model.

   Depending on the situation in a given country, 5 levels of requirements for the CAs are proposed.

   The Specialised modules detail the activities that the CA must undertake in order to fulfil its responsibilities and ensure full compliance with IAEA standards.

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**The BASIC MODEL**

**CONTENT**

- Content of the Basic Model File 33.8KB
- Structure of the three modules File 398KB
- MODULE A Licences / Authorisations File 458.5KB
- MODULE B: Import,Exports requirements. Approvals by CA File 443.5KB
- MODULE C: Ensuring Compliance File 616.5KB
- Questionnaire on Basic Module
- Quiz on Basic Model
The CORE MODEL

- Core Model File 3MB
- Test for functionality File 470KB

THE SPECIALISED MODULES

- Modules for Items 1 to 12 of the Compliance Assurance circle
  
  Additional advanced modules:
  
  - Assessment of licences applications
  - Verify Radiation Protection Programmes
  - Code of Conduct
  - Package design safety report
  - Inspection guidance