MALAYSIA STRATEGY TOWARDS ESTABLISHING NATIONAL POLICY FOR E&T IN RADIATION, TRANSPORT AND WASTE SAFETY

SESSION: STRATEGIC APPROACHES AND IMPACT ANALYSIS

31ST MAY 2017
INTRODUCTION

1972 - Establishment of NM

1984 - Enacted ACT 304 and 1985 - Establish Regulatory Body

2005 & 2011 ETRES

2017 ORPAS
CURRENT STATUS

RADIATION WORKERS IN MALAYSIA

- 1 Radiation Protection Officer
- 2 Supervisor
- 3 Workers
- 4 Trainee
- 5 Radiation Protection Consultant
- 6 Qualified Expert

CATEGORIES OF JOB ACTIVITIES

- Industry: 40.9%
- Medical: 7.1%
- NDT: 52%

Agensi Nuklear Malaysia

PUJAT LATIHAN NUKLEAR MALAYSIA
## TRAINING COURSES 2017

<table>
<thead>
<tr>
<th>No</th>
<th>Code</th>
<th>Training Sector</th>
<th>No of Products</th>
<th>Frequency</th>
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<tr>
<td>1</td>
<td>RSH</td>
<td>Radiation Safety and Health</td>
<td>16</td>
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<tr>
<td>2</td>
<td>MXR</td>
<td>Medical Imaging</td>
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<td>3</td>
<td>NDT</td>
<td>Non-destructive Testing</td>
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<td>4</td>
<td>ESH</td>
<td>Environmental Safety and Health</td>
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<td>5</td>
<td>EIN</td>
<td>Instrumentation and Engineering</td>
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<td>6</td>
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<td>Technology Management</td>
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<td>International Training</td>
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<td>8</td>
<td>NSE</td>
<td>Nuclear Science &amp; Engineering</td>
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<td>9</td>
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<td>Other Training(specific)</td>
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Atomic Energy Licensing Act 1984 (Act 304)

• Atomic Energy Licensing Board (AELB) was established under Section 3 of the Act 304.
Regulatory Requirements
Atomic Energy Licensing (Basic Safety Radiation Protection) Regulations 2010

Responsibilities of licensee and employer
Regulation 15(6)

Employment of radiation protection officer and qualified expert
Regulation (16)

Protection of exposure to public
Regulation 59.

Emergency plans
Regulation 68

Appropriate authority may require reports and documents
Regulation 77

Atomic Energy Licensing (Radioactive Waste Management) Regulations 2011

Appointment of Radioactive Waste Management Officer
Regulation (6)
Functions of National Committee for the Certification of RPO

1. To prepare standard and guidelines for RPO Examinations and RPO Training Center.
2. To prepare questions, standards and guidelines for RPO Examination.
3. To conduct, analyse, inspect and confirm the results of RPO Examination.
4. To do audit to the Training Center and Examination Center for RPO.
5. To evaluate and endorse applications from agencies and suggest to the Board for approval:
   I. Radiation protection courses.
   II. RPO Training Centre
   III. RPO Examination Centre.
NUCLEAR INFRASTRUCTURE AND STAKEHOLDERS

- Regulations & Guidelines
- AELB and MOH
- Auditor

- Implementations
- Class H
- Government and Private Institutions

- Resources
- Public & Private Universities/Polytechnic

- Accreditations
- Syllabus
- Examination
STRATEGY INITIATIVES FOR BUILDING COMPETENCE IN RTWS

Action 1: Establish a steering committee of representatives from all relevant stakeholder organizations responsible for overseeing the development and implementation of the national strategy for education and training in radiation, transport and waste safety

Strategy 1: SPECIAL MEETING & BRIEFING ON THE ESTABLISHMENT OF STEERING COMMITTEE FOR THE PREPARATION OF NATIONAL STRATEGY ON EDUCATION AND TRAINING IN RADIATION, WASTE AND TRANSPORT SAFETY
Date : 25 September 2013

Strategy 2: National Workshop
Date : 19-21 October 2015

Strategy 3: Establish Working Group
Date : 21 October 2015

Strategy 4: Dissemination of Information
Date : Ongoing
Results and Achievements

1. Establishing collaborations among the stakeholders and perform the working group to formalised the national strategy.

2. Develop Term of Reference for the and Steering Committee and Working Group

3. Assessment of education and training needs and development of the training programme.

4. Commitment of stakeholders and authorities to establish the policy/strategy to formalize/endorse the related documents.

NATIONAL STRATEGIES

- Develop a National RTWS Education and Training Programme
- Develop a Continuous RTWS Training Programme
- Develop a National RTWS Competency and Certification Scheme
- Retain Trained Human Capital in the RTWS
- Develop RTWS Educational Institutions
CONCLUSIONS

1) Comprehensive and integrated planning and implementation to develop national strategy on E&T in RTWS shall involve all relevant stakeholders within the HRD framework of Malaysia (industry, educational institutions, etc.).

2) Current National Committee for the Certification of RPO (NCC RPO) functions are important tools but not adequate.

3) The needs of formalized E&T policy/strategy deem fits to Malaysia E&T objectives for sustainable societal well-being.

4) The community of nuclear education and training in Malaysia is making an extensive efforts to strengthen its capability at national level including established linkage, networking and sharing information and resources.