

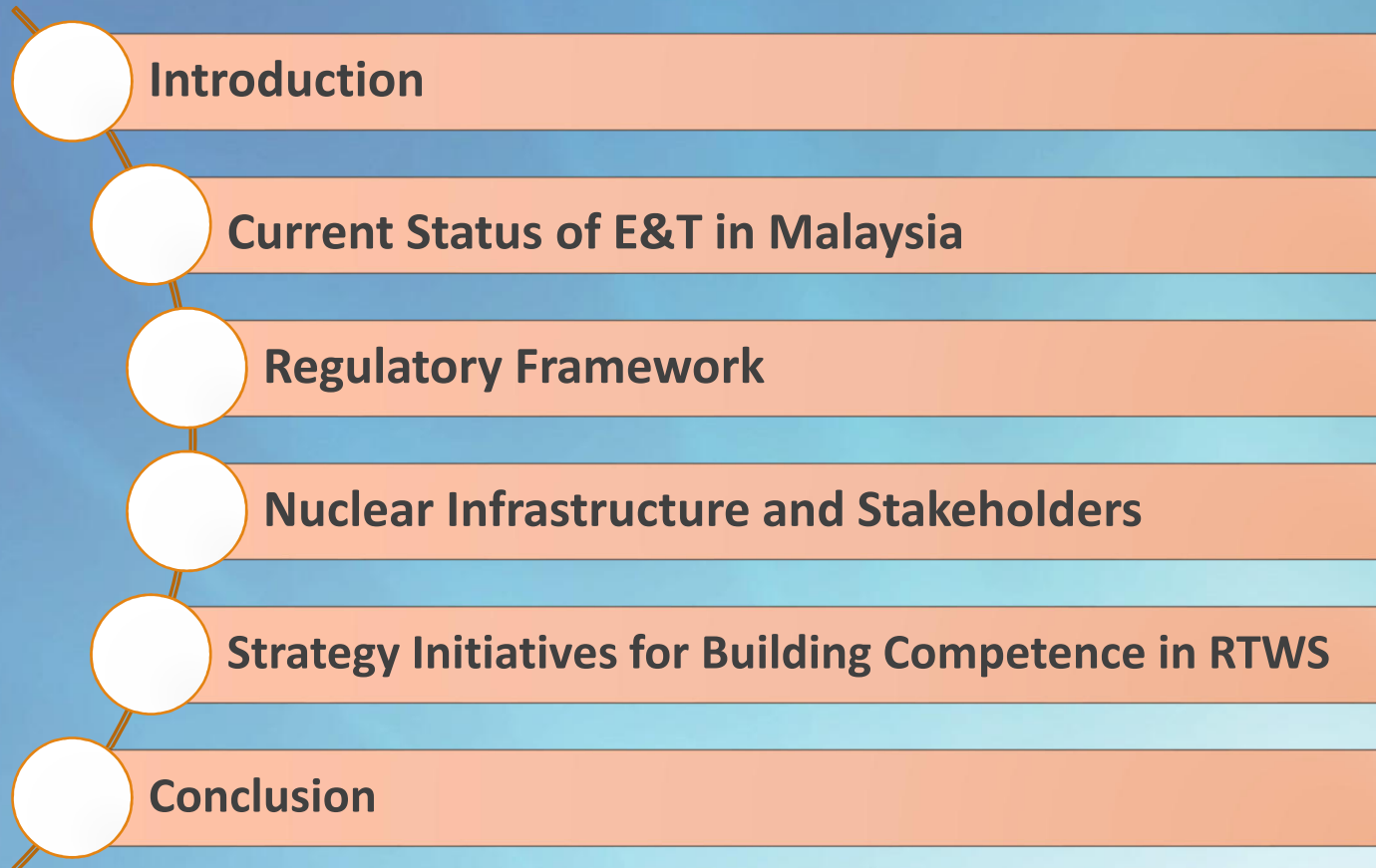
**6th International Conference on Education and Training in
Radiological Protection
30 May -3 June 2017**

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

**SESSION: STRATEGIC APPROACHES AND
IMPACT ANALYSIS**

31ST MAY 2017

OVERVIEW OF PRESENTATION



INTRODUCTION

1972-
Establishment
of NM

1984-Enacted
ACT 304 and
1985- Establish
Regulatory Body

2005 & 2011
EDUTA

2015
ETRES

2017
ORPAS

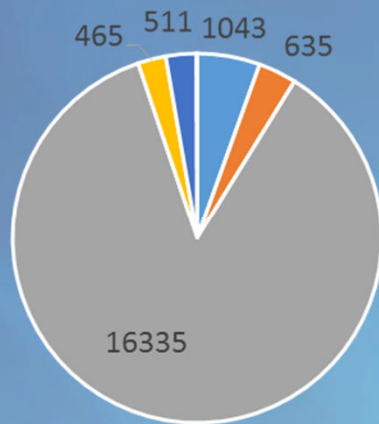


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PUSAT LATIHAN NUKLEAR MALAYSIA

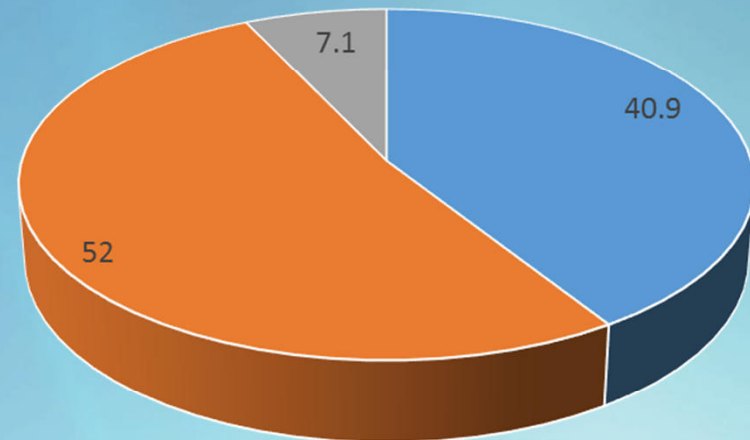
CURRENT STATUS

RADIATION WORKERS IN MALAYSIA



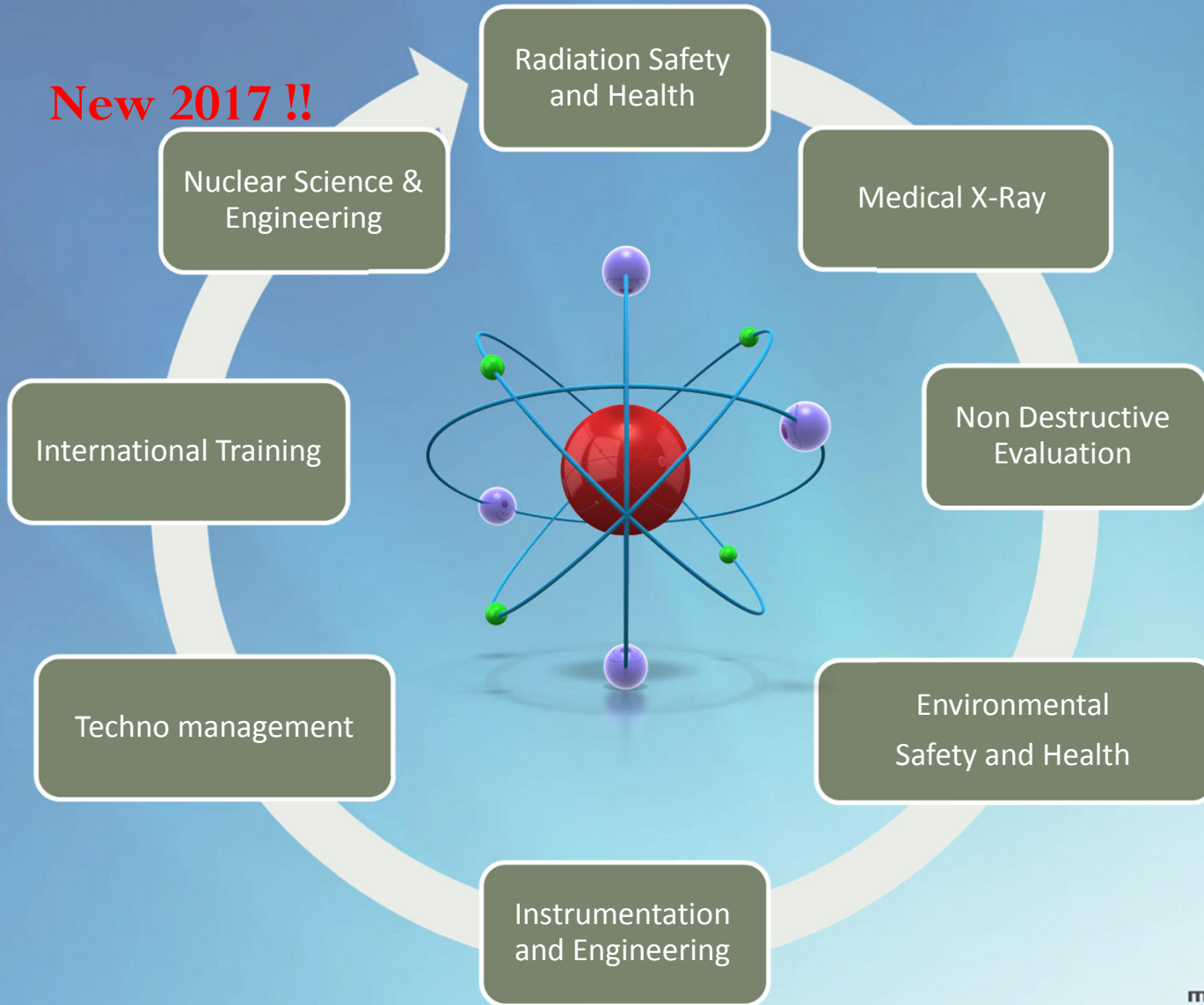
- 1 Radiation Protection Officer
- 2 Supervisor
- 3 Workers
- 4 Trainee
- 5 Radiation Protection Consultant
- 6 Qualified Expert

CATEGORIES OF JOB ACTIVITIES



- Industry
- Medical
- NDT
-

New 2017 !!



TRAINING COURSES 2017

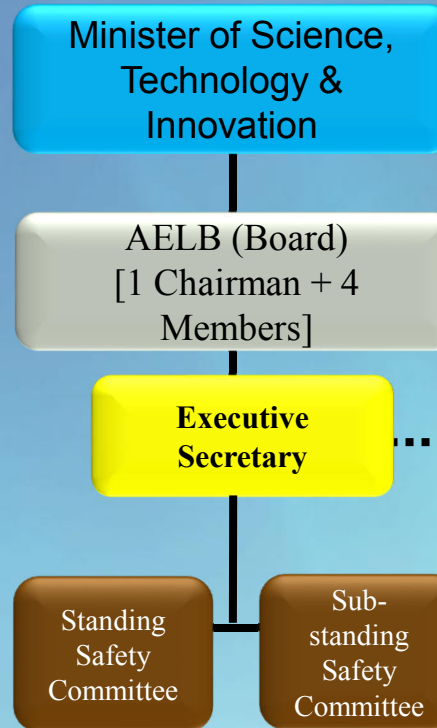
No	Code	Training Sector	No of Products	Frequency
1	RSH	Radiation Safety and Health	16	64
2	MXR	Medical Imaging	21	55
3	NDT	Non-destructive Testing	22	37
4	ESH	Environmental Safety and Health	17	28
5	EIN	Instrumentation and Engineering	3	4
6	MGT	Technology Management	18	27
7	LA	International Training	1	1
8	NSE	Nuclear Science & Engineering	4	4
9		Other Training(specific)	11	30
		Total	114	251

REGULATORY FRAMEWORK

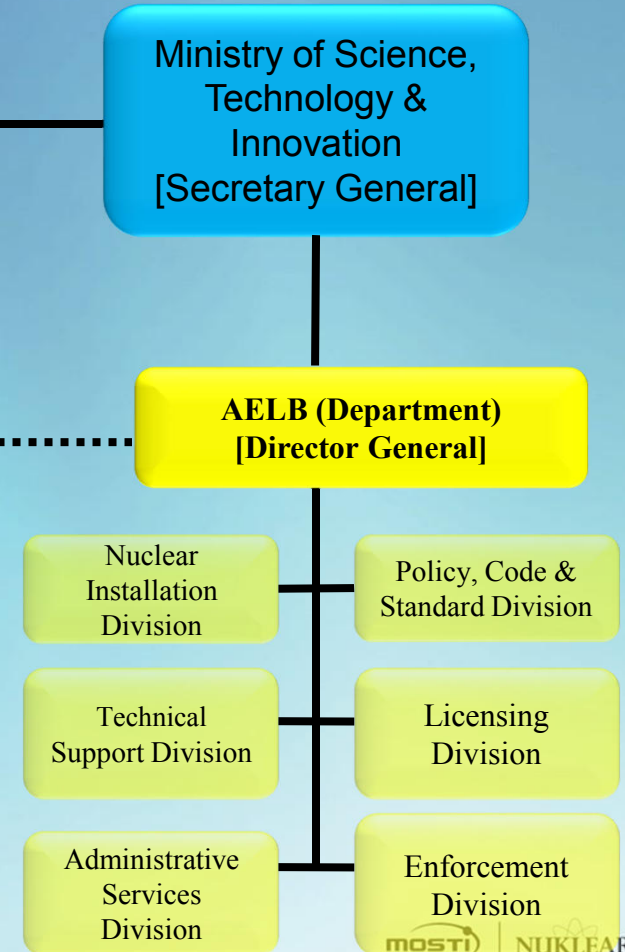
Atomic Energy
Licensing Act
1984 (Act 304)

- Atomic Energy Licensing Board (AELB) was established under Section 3 of the Act 304.

The Board



The Department



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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**

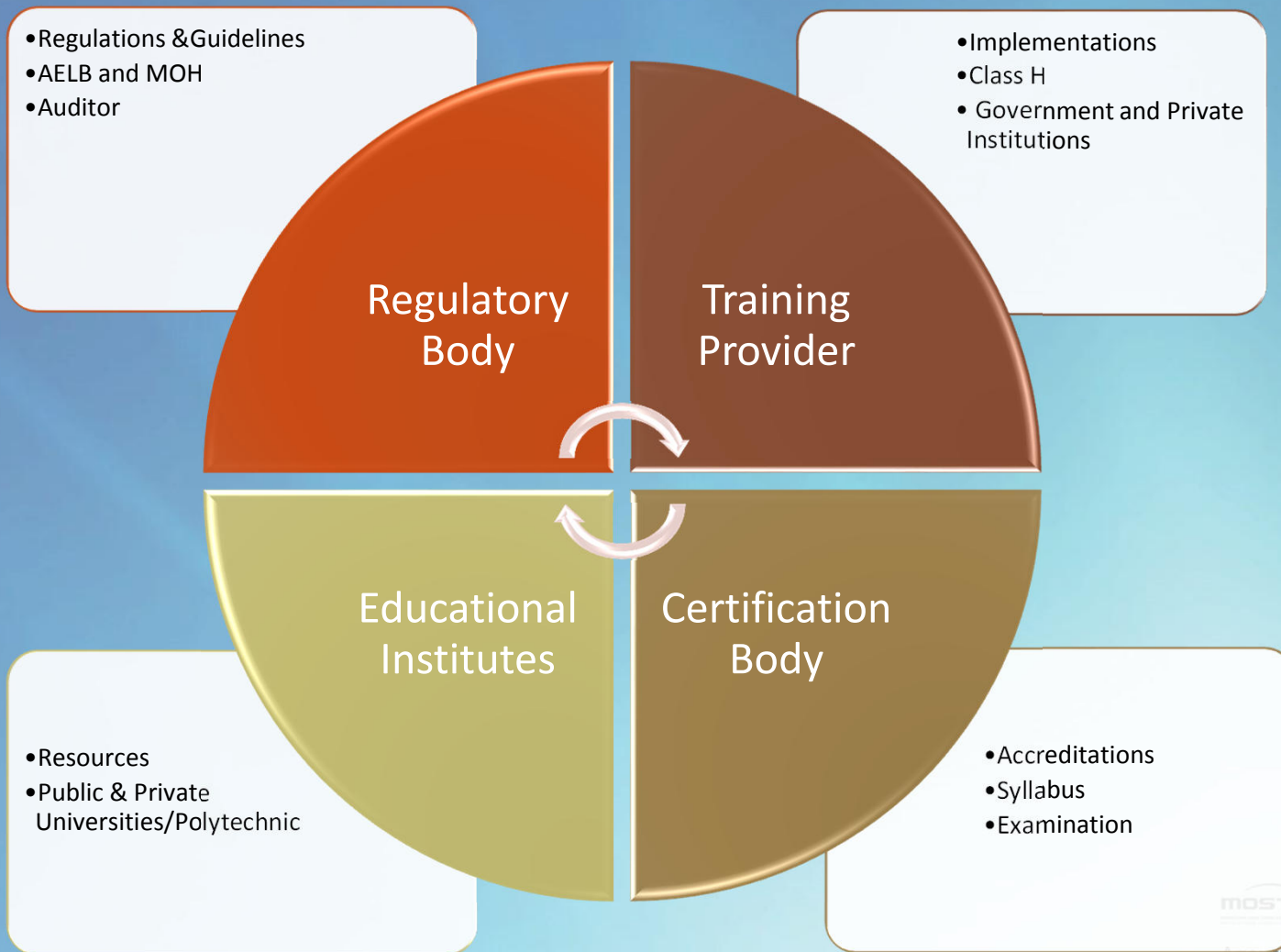
Appointment of Radioactive Waste Management Officer

Regulation (6)

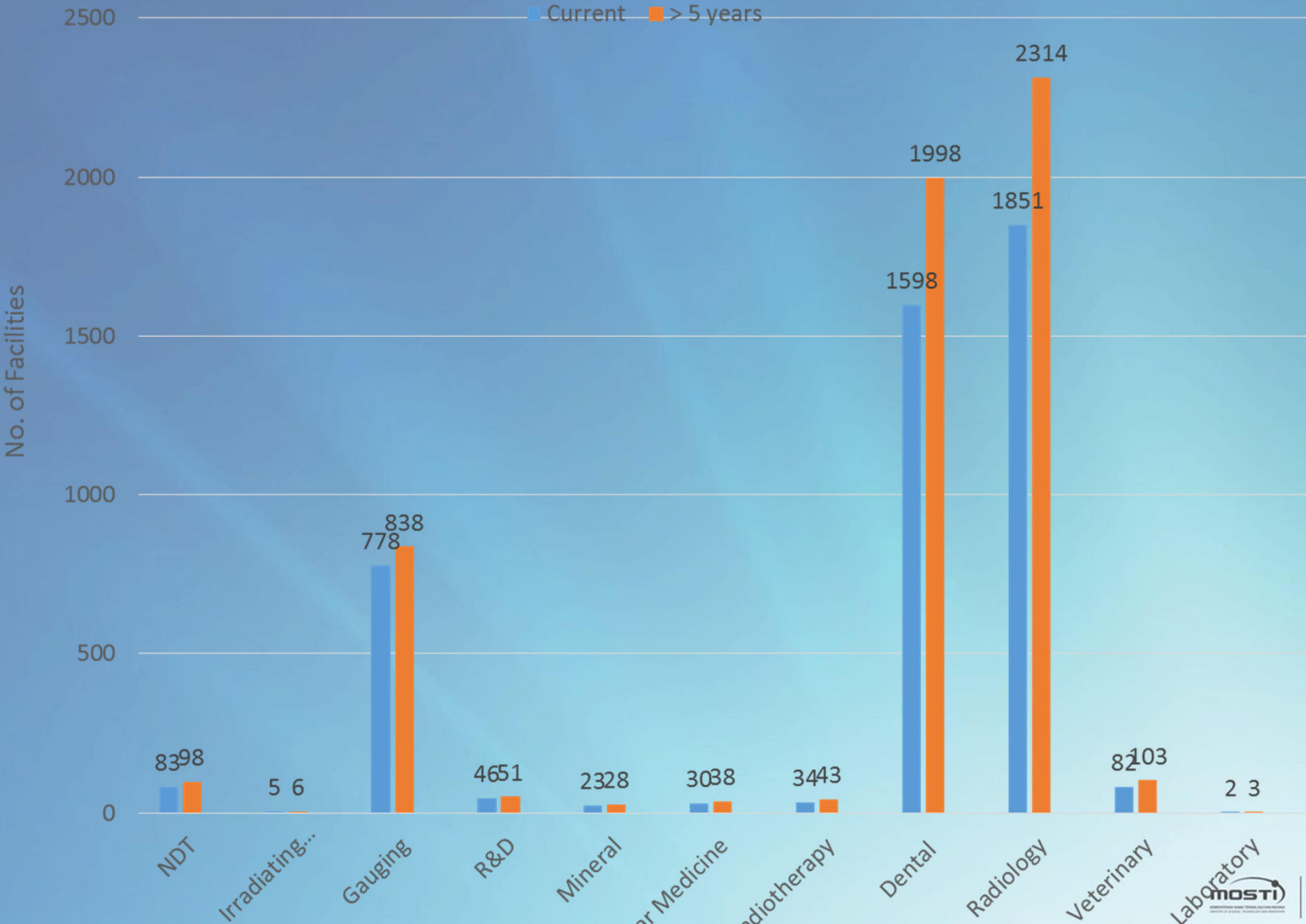
Functions of National Committee for the Certification of RPO

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



Radiation Application in Malaysia



STAKEHOLDERS



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

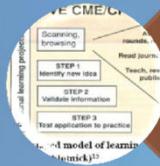
Results and Achievements

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.
5. Prepare the draft of National Policy on Education and Training in Radiation Transport and Waste Safety.

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



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PUSAT LATIHAN NUKLEAR MALAYSIA

STRATEGY MODEL

STAKEHOLDERS

Regulatory Body

Research Agency

Educational Institute

Certification Body

Professional/Scientific Association

CATALYST

GOVERNMENT

SUPPORT

FUNDING

COMMITMENT

STEERING COMMITTEE

DATA COLLECTION

DEVELOPMENT

EVALUATION

WORKING COMMITTEE

GOALS

POLICY

STRATEGY

NETWORK

SUSTAINABLE E&T PROGRAMME



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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.