

**International Conference on Occupational Radiation Protection:  
Strengthening Radiation Protection of Workers –Twenty Years of Progress  
and the Way Forward**

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## **DEVELOPMENT AND IMPLEMENTATION OF STANDARD SYLLABUS ON NUCLEAR MEDICINE IN MALAYSIA: ESSENTIAL TRAINING FOR WORKER**

### BACKGROUND

In Malaysia, the Atomic Energy Licensing Act 1984 (Act 304) is the main act which aims to ensure the usage of the ionizing radiation is in a safe manner without compromising the safety to the worker, patient and members of the public. In the year 2017, the Malaysian Ministry of Health has designed and published the training scheme dedicated to this field. As stated in regulation number (12) of Radiation Protection Regulations (Licensing) 1986, 'the applicant shall employ or otherwise employ persons or persons who have the knowledge, skills and training necessary to ensure the activities to be licensed according to a way of protecting the health of workers and the public and reducing the dangers to life, property and the environment'.

The paper aimed to describe the commitment of the government of Malaysia particularly the Ministry of Health (MOH) and its institution such as hospitals to initiated and designed the training scheme for allied health professional involved directly in the field of nuclear medicine department.

### METHODS

The Malaysian's MOH has developed the document based on the needs of the latest requirements under the Atomic Energy Licensing (Basic Safety Radiation Protection) Regulations 2010. This is the subsidiary regulations under the Act 304. The topics of the syllabus are designed through the special Task Force formed under the Training Committee of the Ministry of Health.

### RESULTS

All professional includes the Nuclear Medicine Specialists, the Nuclear Pharmacists, the Medical Physicist, The Nuclear Medicine Technologist, the Radiochemist and the Nurse should undergo the prescribed training as mentioned in Table 1. The new personnel can only be registered after completing the training.

The application for approval for the registration of new personnel of nuclear medicine services must be submitted to the relevant authorities within six (6) months of completing the training. Those who fail to submit their application within six (6) months of completing the training must undergo re-training. Proof of attendance of personnel and log books certified by the supervisor shall be submitted to the relevant authority. For personnel who work during the period before approval is granted, all activities performed should be supervised by the supervisor.

Table 1: The academic syllabus has been developed

Section A: Theory

Module 1: Radiation Safety Awareness

Module 2: Legislative Requirements

Module 3: Instrumentation and Associated Facilities

Module 4 Principle of Radiation Protection

Module 5: Radioactive Source Management

Module 6: Medical Radiation Dosimetry

Module 7: Clinical practice

Section B: Attachment/ Hands on

The details of each topics will not be highlighted in this abstract.

### CONCLUSIONS

The training scheme developed by the Ministry of Health (MOH) and its institution is a very important tool to ensure the safety of the patient, staff and the members of the public from the harmful effect of the ionizing radiation. The supporting document like this will directly improve in term of services provided by the Nuclear Medicine Department in Malaysia.

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