

Evolving training within HPA



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Why?



Developed from IRIS competencies

New staff

Succession planning

Career structure – qp - IRIS

- Common
- Laboratories – X-ray, Gamma
 - Characteristics
 - Procedures

Common



Topic	Stages			Date competent	Signed
	Sha	Lead	Solo		
Statistical fluctuation Snap shot / Eye averaging					
Mounting instruments					
Calculation of dead time					

Characterise



Subject area	Topic	Stages			Date competent	Signed
		Sha	Lead	Solo		
Gamma 1	Measurement of output using secondary standard					
	Beam uniformity					
	Shutter transit					
	Build-up					
	Effect of source wheel position on background					

Procedures



Subject area	Topic	Stages			Date competent	Signed
		Sha	Lead	Solo		
Gamma 1	^{137}Cs linearity + ^{241}Am + overload					
	As above + ^{60}Co					
	Single Thermo 6-80					
	Multiple Thermo 6-80					
	PID's					
	TLD irradiations					
	GM using NIM Kit					
	Polar Response					

Lecture based



- Based on IRIS competencies
 - 26 modules

General Awareness

Basic Understanding

Detailed Understanding

Basic Atomic / Nuclear Physics

Interaction of Radiation with Matter

**Detection and Measurement
Monitoring Methods**

Practical Radiation Fields

Typical Instrument Problems

Contamination Units and Quantities

**External Dosimetric Units and
Quantities**

Operational Radiation Protection

Organisation of Radiation Protection

Calibration Facilities

**Instrument Testing / Set up /
Evaluation**

Repairing Equipment

Data Management

Uncertainty budgets

Lecture based



Basic Atomic / Nuclear Physics

General Awareness

- **PowerPoint Lecture**
- **Lecture notes**
- **Questions and answers**

Lecture

- 26 modules – 3 levels **2 years**

Practical

- 6 Facilities
- Not facility based competencies

2 years + ?????