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Achievements and Challenges in Radiation Protection Education and Training: Tanzania's Perspective

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Introduction

- Education program approvals: Tanzania Commission for Universities (TCU) & National Council for Technical Education (NACTE)
- Training program: subject to relevant Legislation
e.g. Training in RP → Atomic Energy Act, 2003 → Tanzania Atomic Energy Commission



Education Programs related to RP

Course	No. of hrs		Course	No. of hrs	
	per wk	Total		per wk	Total
M.Sc (Physics)	4	60	Adv. Dip (Radiol.)	3	32
M.Med (Radiol.)	9	27	M.Med(Radiol.)	3	32
B.Sc (RT Technology)	6	24	Diploma (Radiography)	2	18
Diploma (Radiography)	3	12	M.Med (Oncology)	4	52 (42 practicals)



Training programs in RP

Type of Course	Number of Partic.	Type of Course	Number of Partic.
Radiation Safety Officers	30	Nuclear Security	25
RP in Industrial sources	15	RP in Mining	30
RP in Diagnostic Radiology	30	RP in Baggage x-ray screening	25
Safe Handling and Security of R/Sources	15		



Achievements & Challenges: Education

Achievements	Challenges
Policy (Nuclear Science & Technology)	Limited regulatory requirements
Regulatory body involvement in syllabi designing/reviewing	Limited number of institutions
RP teaching in some education programs	Inadequate radiation protection content
Availability of some competent academic staff members	Limited professional accreditation and /or certification
	Inadequate nuclear knowledge management



Achievements & Challenges: Training

Achievements	Challenges
Legal backing exists	No structured modules
Some training programs available	Limited coverage of trainees/workers
Presence of some trained personnel in RP	Some limitations in Regulations (e.g. QE, TSO)
Basic RP equipment available	Lack of accreditation
	Limited awareness of employers & licensees



Concluding Remarks

- Essential features in :
 - Education programs (quantity & quality)
 - Training programs (structured modules, quality of trainees and trainers)
- Improvements are required (quantity, quality and sustainability)
- Opening opportunities: TAN-NEST, M.Sc (Medical Physics) project proposal

