JOB DESCRIPTION

Position: Nuclear medicine technologist for Sri Venkateswara Institute of Cancer Care & Advanced Research

Key Accountability :	
1.	Advise and assist the licensee to organise a radiation protection programme appropriate for the facility and ensure that staff observe safe work practices.
2.	Ensure safety, security and containment of radioactive sources, carry out radiation and contamination monitoring of work areas, patient waiting areas, radioactive waste disposal sites and public areas, and maintain record.
3.	Ensure that radiation monitoring instruments are kept in proper working condition and are calibrated at regular intervals.
4.	Establish procedures for management of emergency situations and conduct periodic drills to ensure their effectiveness.
5.	Report any unusual incident in writing to the licensee, with a copy endorsed to the competent authority and take remedial measures to mitigate consequences of the incident and to prevent recurrence.
6.	Maintain records of the doses of workers, the inventory of sources received, used and disposed of, any unusual incident, cause of such incident and remedial measures taken.
7.	Ensure segregation and monitoring of the waste prior to interim storage or final disposal.
8.	Advise and assist the licensee in ensuring regulatory compliance for obtaining authorisation from the competent authority for procurement, use, transport or disposal of radioactive material.
9.	Inform the competent authority of his/her leaving the institution.
10.	Advise and assist the licensee in transport of radioactive material/ radioactive waste in the public domain.
11.	Ensure urgent processing of personnel dosimeters in cases of suspected overexposure; and
12.	Display advisory notices in the nuclear medicine departments to avoid unintentional exposures to pregnant women/lactating mothers.
13.	RSO attached to therapy centers shall, in addition to the above shall:
14.	Ensure that patients administered with radioisotopes for in-patient therapy are hospitalized in the approved isolation wards.
15.	Carry out regular monitoring of therapy patients, patient areas and nurse's station areas.
16.	Ensure that effective dose to the patient's comforter shall not normally exceed 5 mSv during the period of a patient's treatment.
17.	Ensure that dose to any family member other than comforter does not exceed 1 mSv/year, prospectively estimated prior to discharge of the patient.
18.	Ensure that radiation level at 1 m from patient being discharged does not exceed 50 mSv/h at the time of discharge. Provide detailed instructions in English and local language on the

	safety precautions to be followed by the comforter and other family members so as to keep the doses below the levels specified.
19.	Ensure that activity limit for discharge of patients administered with beta emitting radionuclides.
20.	Ensure sampling and monitoring of effluents from therapy wards prior to their release to public sewers.
21.	Maintain a separate logbook for data on monitoring of therapy patients from the time of hospitalisation until discharge from the ward.
22.	Segregate and monitor patient linen prior to interim storage or reuse.
23.	Provide personnel monitoring to patient's comforter(s), if required, and maintain appropriate records.
24.	Give appropriate instructions for radiation safety and precautions to patient comforters in management of therapy patients.
25.	Restrict entry of visitors to isolation wards.
26.	Issue necessary written instructions at the time of discharge of therapy patients to minimise radiation exposure of family members especially to children and pregnant women; and
27.	Decide, in consultation with the physician-in-charge, the safety precautions to be followed, regarding disposal of cadavers containing radionuclides in accordance with the procedures approved by the competent authority.
28.	Should have hands on experience in handling and operating PET CT machines.
29.	The responsibilities of a positron emission tomography technologist include research and the performance of procedures utilising a positron emission machine.
30.	Responsible for educating and preparing patients for their examinations.
31.	Provide patient care that is essential to the performance of a variety of procedures and should be empathetic.
32.	Take patient medical history before an examination.
33.	Strong communication skills are essential. Gains patient cooperation by reducing anxieties; providing explanations of treatment; answering questions.
34.	Minimises radiation to patient and staff by practicing radiation protection techniques, using beam restrictive devices, patient shielding, and knowledge of exposure factors.
35.	Excellent problem-solving skills are important, as it is essential to have the ability to analyse the patient's scan and develop an accurate diagnosis.
36.	It is essential to stay abreast of all developments in the field of radiology, as it provides essential information that is needed for diagnosing and treating patients.
37.	Maintains radiology and CT supply inventory by checking stock to determine inventory level; anticipating needed supplies; placing and expediting orders for supplies; verifying receipt of supplies.
38.	Maintains professional and technical knowledge and continuing education workshops; reviewing professional publications; establishing personal networks; participating in professional societies.

39	Maintains safe and clean working environment by complying with procedures, rules, and regulations.
40.	Documents patient care services by charting in patient and department records.
41.	Sterilising and cleaning radiologic equipment.
42.	Supervise, motivate, monitor, educate subordinates / nursing staff.