Australian Government

ANSTO
Science. Ingenuity. Sustainability.

POSITION DESCRIPTION

Position Title:	Nuclear Medicine Manufacturing Technician
Cluster / Business Unit / Division	Customer Advocacy Value Chain (CAVC)
Section or Unit:	ANSTO Nuclear Medicine (ANM)
Classification:	Band 4
Position Description Number:	PD-A0018
Work Contract Type:	Technical

POSITION PURPOSE

The primary purpose of the Nuclear Medicine Manufacturing Technician include:

- Ensure the timely, safe and efficient production of Mo99 by operating plant and equipment safely in a manner that complies with production procedures, GMP, ARPANSA, ISO and ASNO regulations and guidelines.
- Contribute to regular maintenance of equipment and good housekeeping in the ANM complex and Mo-99 plant to ensure compliance of the facilities at all times to GMP, ARPANSA, ISO and ASNO regulations and guidelines
- Provide support services to the Mo-99 facility to enable the plant to be operated. Support services include transfer of targets from ANSTO's OPAL reactor, transfer of equipment between hot cells and waste handling.

ORGANISATIONAL ENVIRONMENT

ANSTO leverages great science to deliver big outcomes. We partner with scientists and engineers and apply new technologies to provide real-world benefits. Our work improves human Nuclear Medicine, saves lives, builds our industries and protects the environment. ANSTO is the home of Australia's most significant landmark and national infrastructure for research. Thousands of scientists from industry and academia benefit from gaining access to state-of-the-art instruments every year.

The CAVC division includes a number of commercial businesses including Nuclear Medicine Products, ANSTO Nuclear Medicine (ANM), Minerals, Silicon Irradiation and Radiation Services. The focus of this division is on the management of ANSTO's established businesses. The division generates revenue for ANSTO from the sale of products and services and has a strong quality focus on meeting cu

Customer needs with timely and value added products and services. The CAVC division identifies and implements continuous improvement activities with the objective of simplifying the end to end supply chain to deliver ongoing value to both internal and external customers.

Nuclear Medicine Products is engaged in the manufacture and sales of radiopharmaceutical and radiochemical products. Manufacturing is based upon the GMP Code of Manufacturing, where processes must meet certain standards and Quality Control (QC) is essential and also on just-in-time principles, where all processes are extremely time-critical.

Nuclear Medicine Products has a dominant market share position in Australia and is expanding into the global market. Nuclear Medicine Products operates under external regulatory requirements such as ISO 9001, ARPANSA and TGA, within ANSTO's procedural framework and in oversighted by the ANSTO Board. Over 500,000 Australian patients benefit from Nuclear Medicine Products radiopharmaceuticals annually.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

- Safely and efficiently perform routine production of Mo99 according to production schedules to meet tight deadlines
- Operate the Mo-99 plant and equipment safely and comply with production procedures at all times to ensure a safe, incident free work place that complies with GMP, ARPANSA, ISO and ASNO regulations and guidelines.
  - Ensure department, productivity and quality goals are achieved.
  - Coordinate production flow in accordance with approved schedules
  - Work within all areas of the facility to meet production schedule requirements
  - Independently perform regular maintenance and review of equipment. Identify, investigate and troubleshoot issues and provide solutions for problems using technical knowledge
  - Install, commission and troubleshoot new or modified plant and equipment including assisting with equipment delivery and acceptance
  - Communicate with internal ANM stakeholders to ensure optimal production performance in accordance with forecasts. Ensure delays, issues and problems are communicated in a timely manner to relevant stakeholders
  - Maintain the training metrics required to fulfil the duties of the production operator and senior production operator role. Pro-actively share knowledge and experiences to establish productive working relationships and employee relations.
  - Maintain high level of housekeeping and line clearances.
- Provide support services to the ANM plant complying with production procedures at all times to ensure a safe, incident free work place that complies with GMP, ARPANSA, ISO and ASNO regulations and guidelines.
  - Transfer targets from the OPAL reactor to the Mo-99 facility
  - Operate the crane systems within the production facility
  - Transfer equipment and materials between hot cells
  - Transfer and manage facility waste
  - Coordinate operations flow in accordance with approved schedules
- Develop/Review and update procedures, work instructions and specifications to ensure processes are fully documented and are compliant with regulatory requirements
- Maintain records and yields for plant and production processes.
- Promote and foster the desired ANM safety culture with the aim of continuous improvement to safety and its awareness across site.
- Lead, develop and implement improvements to systems and processes of the ANM facility in order to maximise process velocity which ensure ANM customers are being delivered a quality and cost effective product.
- Provide technical support using specialist technical knowledge for project objectives and cross functional activities including working with project team members to plan and complete activities within ANM.
- Ensure accurate stock locations and holdings and accuracy in Bill of materials and production routings.
- Assist Supervisor to coordinate production start-ups, shutdowns and changeovers and resolve complex or out of policy operational issues.
- Ensure that the fissile records are meticulously maintained to ensure compliance with regulations and ANSTO's licences.
- Provide input and support to validation, planning and report writing activities
- Oversee and train new staff. Coach and support other staff as required
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

- The position operates in structured operating environment that is subject to established policies, procedures and practices underpinned by GMP ARPANSA, ISO and ASNO regulations and guidelines, quality and safety procedures and other statutory requirements. The position has some capacity to adapt operating practices.
- Has some degree of autonomy in respect to their day to day work priorities and, in this context is expected to make day-to-day decisions relating to work priorities and workload management, for themselves.
- Utilises judgement to independently assess priorities
- Assist Supervisors to determine, plan and coordinate production activities, corrective actions and planned maintenance to ensure Organisational excellence is achieved
- Consults with management on decisions which will substantially alter the outcomes, timeframe or requirements of work plans, any issues or conflicts arising in the course of undertaking duties, and all matters which require a higher delegated authority for approval.
- The levels of authority delegated to this position are those approved and issued by the Chief Executive Officer. All delegations will be in line with the ANSTO Delegation Manual AS-1682 (as amended or replaced).

Key Challenges

- High level of responsibility and accountability producing medical radioisotopes
- Compliance to all processes and GMP ARPANSA, ISO and ASNO regulations and guidelines.
- Participation in training and sharing of knowledge and experiences with other staff in Production processes and equipment.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Nuclear Medicine Manufacturing Leader	• Receive guidance and direction • Provide expert, authoritative and evidence based advice • Provide regular updates on key tasks, issues & priorities • Negotiate and report on progress of production outcomes consistent with plans and goals • Recommend and gain endorsement for plans and goals and other initiatives • Escalate issues and propose solutions
Work area team members	• Provide advice and analysis on a full range of matters. • Contribute to group decision making processes, planning and goals • Collaborate and share accountability, • Support team members and work collaboratively to contribute to achieving outcomes • Identify, negotiate and resolve conflicts • Utilise individuals' skills and experience across a range of professional and technical areas of expertise to meet production requirements
Operations/Technical/Quality Teams	• Provide expertise, advice and guidance in quality management system matters • Collaborate to ensure maintenance and quality tasks are achieved within agreed timeframes

	• Collaborate to ensure business objectives are achieved
ANSTO Health/Nuclear Operations/PCSS/AME	• Collaborate on delivery schedules to ensure timely production of nuclear medicine
External	
Suppliers	• Provide input to KPIS and Service Level Agreements (SLA)'s
Industry Regulators – ARPANSA, ASNO	• Ensure compliance with ARPANSA licences within areas of responsibility • Ensure compliance with ASNO regulations within areas of responsibility
Licensing Authorities - TGA	• Ensure compliance with TGA and GMP code within areas of responsibility

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Nuclear Medicine Manufacturing Leader
Direct Reports	Nil
Indirect Reports	Nil

Special / Physical Requirements	
Location:	• Lucas Heights • Working in different areas of designated site/campus as needed
Travel:	• May be required to travel to ANSTO sites from time to time
Physical:	• Ability to stand for lengthy periods, use hand manipulators and lift up to 23kg • Applicants should be fit & able to do all duties. • Required to do regular amounts of manual handling. • Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer)
Radiation areas:	• May be required to work in radiation areas under tightly regulated conditions • Perform duties in an area where radioactive materials are handled under tightly controlled safety conditions • Perform duties with and in an area where hazardous chemicals or materials are handled under tightly controlled safety conditions
Hours:	• Willingness to work extended and varied hours based on operational requirements • Shift work is required • After hours work will be required on a regular basis
Clearance requirements:	• Satisfy ANSTO Security and Medical clearance requirements • Obtain and maintain appropriate federal government clearance

Workplace Health & Safety	
Specific role/s as specified in AG-2362 of the ANSTO WHS Management System	All Workers
	Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties

ORGANISATIONAL CHART

On File

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Tertiary qualification in Science, Engineering or other relevant discipline
2. Experience in a laboratory or production environment.
3. Ability work effectively both in a team or independently.
4. A strong understanding of and commitment to organisational excellence and continuous improvement principles.
5. Experience with the operation of plant and equipment in a pharmaceutical environment or experience working within an manufacturing environment
6. Working knowledge of and ability to apply regulatory requirements including ARPANSA, TGA, ANSO Safeguards and ISO 9001.
7. Sound understanding and working knowledge of the Code of GMP and/or ISO 9001.
8. Strong verbal communication skills with emphasis on the ability to adapt communication styles to suit the audience.
9. Understanding of radiation and radiation protection measures.
10. Ability to lead others in the importance of Work Health and Safety, Environment, Quality and Regulatory requirements
11. Personal qualities that add value to a team operating in a high level client service / safety & quality environment.

VERIFICATION

Line Manager		**Delegated Authority**	
Name:	Aaron Flett	Name:	Ian Martin
Title:	Operations Manager	Title:	Head of Operations ANM/GM ANSTO Health
Signature:		Signature:	
Date:		Date:	