



QUALIFICATION PACK - OCCUPATIONAL STANDARDS FOR HEALTHCARE

What are Occupational Standards (OS)?

OS describe what individuals need to do, know and understand in order to carry out a particular job role or function

OS are Performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack: X-ray Technician

SECTOR	:	HEALTH
SUB-SECTOR	:	Allied Health and Paramedics
OCCUPATION	:	X- ray Technician
REFERENCE ID	:	HSS/ Q 0701
ALIGNED TO	:	NCO-2004/3211 .0 100

X-ray Technician: X-ray Technician creates X-ray images of parts of human body to help physicians diagnose and treat various illnesses and injuries as accurately as possible.

Brief Job Description : Individuals at this job need to create X-ray images of parts of the human body using radiographic equipment under the guidance and supervision of Radiologist . They explain medical imaging procedure, prepare X-ray room & patient for procedure, operate & m a i n t a i n X-ray machine, record radiological supplies, prepare report & document under Radiologist's guidance, maintain records and carry out other administrative jobs as needed in the department.

Personal Attributes: This job requires individuals to work in a team and in close collaboration with Radiologist. They must be polite and be able to calm and placate upset individuals. They should be able to remain standing for long periods of time and must have strength to transfer and position patients for scans. They should have the capacity to visualize two and three-dimensional spatial.







	Qualifications Pack Code	HSS/ Q 0701		
ails	Job Role	X-ray Technician		
Job Details	Credits (NSQF)	TBD	Version number	1.0
ſ	Sector	Health	Drafted on	19/11/2015
	Sub-sector	Allied Health & Paramedics	Last reviewed on	08/04/2016
	Occupation	X- Ray Technician	Next review date	07/04/2019
	NSQC Clearance on		21/07/2016	

Job Role	X Ray Technician
Role Description	Perform diagnostic imaging examinations such as X-ray images, BMD and Mammography scans under the guidance of a Radiologist. Prepare patient, unit & machine for tests; keep patient records and test recommended along with maintaining equipment. X ray technicians are not permitted to discuss the result of images with any other person. They perform radiological duties in compliance with X- ray department and legal requirements.
NSQF Level	3
Minimum Educational Qualifications	Preferably Class XII, but Class X is also considered in certain situations.
Maximum Educational	
Qualifications	Not Applicable
Minimum Job Entry Age	18 Years
Training	Not Applicable







	Compulsory:
	HSS/ N 0711: Comprehend conventional radiological needs of patients
	HSS/ N 0712: Prepare the patient and the room for the conventional
	radiological procedures
	HSS/ N 0713: Operate and oversee operation of conventional radiologic
	equipment
	HSS/ N 0714: Process X-ray films/ Images
	HSS/ N 0715: Prepare and document conventional radiological reports
	HSS/ N 9601: Collate and communicate health information
Occupational	HSS/ N 9602: Ensure availability of medical and diagnostic supplies
Standards (OS)	HSS/ N 9603: Act within the limits of your competence and authority
	HSS/ N 9606: Maintain a safe, healthy and secure environment
	HSS/ N 9608: Follow radiation safety guidelines
	HSS/ N 9609: Follow biomedical waste disposal protocols
	HSS/ N 9610: Follow infection control policies and procedures
	HSS/ N 9611: Monitor and assure quality
	HSS/ N 9614: <u>Recognize healthy body systems</u>
	Optional: N.A.
	Note: All standards, procedures and equipment should comply with
	Atomic Energy Regulatory Board (AERB) regulations and rules.
Performance Criteria	As described in the relevant OS units







Definitions

Key Words / Terms	Descriptions
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are essential to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Computed Tomography Scan	A scan that provides cross-sectional views (slices) of the body. A computed tomography (CT) scan is an imaging method that uses x-rays to create pictures of cross-sections of the body.
Conventional Radiology	Conventional radiography uses an X-ray emitter and a detector image (or radiographic film, now sensors connected to a computer) which is placed between the body segment studied.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Fluoroscopy	Examination of the tissues and deep structures of the body by x-ray, using the fluoroscope or video fluoroscopy
Function	Function is an activity necessary for achieving key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Knowledge and Understanding	Knowledge and Understanding are statements which together specify the technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Mammography	The process of using low-energy X-rays (usually around 30 kVp) to examine the human breast, which is used as a diagnostic and screening tool for early detection of breast cancer.
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.





Qualifications Pack(QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.	
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.	
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.	
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.	
Sub-Sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.	
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.	
Ultrasound	 Ultrasound is a high-frequency sound wave, which reflects off body structures. A computer receives these reflected waves and uses them to create a picture. Ultrasound scan is a well-known for its use in obstetrics & gynecology and is also used to check circulation and examine the heart. 	
Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with either an ' O ' or an ' N '.	
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.	
Vertical	Verticals may exist within a sub-sector representing different domain areas or the client industries served by the industry.	
X-Ray	 A scan that looks through tissues to examine bones, cavities and foreign objects. X-rays are a type of electromagnetic radiation, just like visible light. An x-ray machine sends individual x-ray particles through the body. The images are recorded on a computer or film. Structures that are dense (such as bone) will block most of the x- ray particles, and will appear white Metal and contrast media (special dye used to highlight areas of the body) will also appear white Structures containing air will be black, and muscle, fat, and fluid will appear as shades of grey 	

	Keywords /Terms	Description
	HSSC	Health Sector Skill Council
Acronyms	MHRD	Ministry of Human Resource Development
ا ک	MRI	Magnetic Resonance Imaging
õ	NOS	National Occupational Standard(s)
V CI	NVEQF	National Vocational Education Qualifications Framework
	NVQF	National Vocational Qualifications Framework
	OS	Occupational Standard(s)
	QP	Qualifications Pack
	SSC	Sector Skills Council





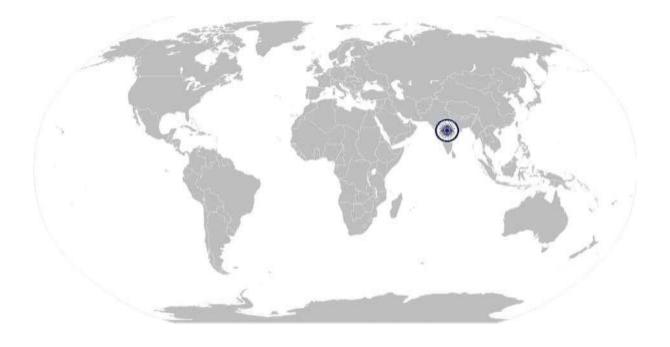




HSS/ N 0711:

Comprehend conventional radiological needs of patients

National Occupational Standards



A Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X-ray Technician to carry out conventional radiological procedures as per the need of the patient.









Comprehend conventional radiological needs of patients

	Unit Code	HSS/ N 0711
nal Occupational Standard	Description	This OS unit is about the knowledge, understanding and skills required by an X- ray Technician to carry out conventional radiological procedures as per the need of the patient or a request by physician/treating doctor.
	Scope	 This unit/task covers the following: Reading requests or instructions from physicians/ health service providers, taking medical history of the patient, determining needs as per the recommendations for x-ray type , BMD or Mammography
	Performance Criteria (P	C) w.r.t. the Scope
	Element	Performance Criteria
National	 Patient medical history and interpreting conventional radiological needs 	 PC1. Explain the subdivisions of anatomy, terms of location and position, fundamental planes, vertebrate structure of man, organisation of the body cells and tissues including: a. The basics of the cardio vascular system (structure and functions of various parts of the heart, arterial and venous system, brief account on common cardiovascular disorders) b. The basics of the respiratory system (various parts of respiratory system and their functions, physiology of respiration) c. The basics of the digestive system (names and various parts of digestive system-liver, spleen, gall bladder, pancreas, buccal cavity, pharynx, oesophagus, stomach, intestine etcphysiology of digestion and absorption) d. The basics of the urinary system (various parts of urinary system and its function-structure and function of kidneys-physiology of urine formation - pathophysiology of renal disease and oedema) e. The basics of the musculoskeletal system (physiology and anatomy of male & female reproductive system (physiology and anatomy of male & female reproductive system (various parts of nervous system-brain and its parts, functions of nervous system - spinal cord & nerves) h. The basics of the ervous system (various parts of nervous system-brain and its parts, functions of nervous system - spinal cord & nerves) h. The basics of the ear, nose, throat and eye (elementary knowledge of structure and functions of organs of taste, smell, hearing, vision) The basics of the endocrine system (endocrine glands , hormones and functions-thyroid, parathyroid, suprarenal, pituitary, pituitary and pituitary and thymus)







HSS/ N 0711:

Comprehend conventional radiological needs of patients

	 I. The basics of the haemopoietic and lymphatic system (name of the blood vessels & lymph gland locations) m. The basics of the surface anatomy & surface markings of human body n. Common cancers and special radiological techniques for diagnosis and The basics of the endocrine system (endocrine glands , hormones and functions-thyroid, parathyroid, suprarenal, pituitary, pituitary and thymus) o. The basics of the haemopoietic and lymphatic system (name of the blood vessels & lymph gland locations) p. The basics of the surface anatomy & surface markings of human body q. Common cancers and special radiological techniques for diagnosis and management of these e.g. Mammography for breast cancer PC2. Explain the pathology of various systems: cardiovascular system, respiratory system, central nervous system, musculoskeletal system, GIT, GUT and reproductive system PC3. Explain the pathology of radiation injury and malignancies PC4. Understand specific requests of physicians with respect to the scans required PC5. Take medical history of the patient and document it as required PC6. Understand and interpret instructions and requirements documented by the physician in the patient's prescription PC7. Determine the radiological diagnostic tests required for the patient based on the physician's prescription and the medical history
	derstanding (K)
A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes)	The user/individual on the job needs to know and understand:
	KA10. Penalties for misconduct and malpractice





B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. Healthy body systems KB2. Basic principles and practical aspects of x-ray machines KB3. How to take medical history of the patient and document it as required KB4. How to interpret instructions and requirements documented by the physician in the patient's prescription KB5. How to determine the radiological diagnostic tests required for the patient based on the physician's prescription and the medical history
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	 SA1. Write short notes to co-workers and clerical staff to compile information about particular patients, describe unusual pathologies or ask for on-site reference material SA2. Write brief observations about pathologies that may affect diagnoses on patients' charts as directed by radiologist SA3. Write descriptions of accidents and incidents on reporting forms when something unusual occurs during patient exams or scanning procedures SA4. Write memos to advise, inform or direct staff working in other hospital or clinic departments or units SA5. Complete patients' medical history forms by entering the patients' names, treatments received to date and current medical conditions
	Reading Skills
	 The user/individual on the job needs to know and understand how to: SA6. Read scan instructions in notes attached to patients' files SA7. Read communications about scheduling, training and updates to internal procedures from co-workers, supervisors or hospital administrators SA8. Read protocol updates and hospital policy changes SA9. Read and follow all specified procedures in the multi-page treatment prescriptions prepared by referring physicians, radiologist SA10. Review protocols for scanning and identifying non-routine or atypical pathologies in procedure manuals SA11. Read reports of varying lengths completed by physicians, hospital or clinic administrators and supervising technologists SA12. Read user manuals for various types of radiological equipment in case of faults malfunctioning of scanners or imaging computers
	Oral Communication (Listening and Speaking skills)







National Occupational Standards

HSS/ N 0711:

Comprehend conventional radiological needs of patients

	 The user/individual on the job needs to know and understand how to: SA13. Speak to patients to explain protocols for procedures or examinations, obtain information about the patient's status SA14. Speak with reception and clerical staff to determine and confirm the number of appointments for the day, request patient information from files and loggings of appointments for patients requiring additional testing or treatment SA15. Discuss scheduling, treatment room assignments and workload responsibilities with employees and co-workers SA16. Order supplies such as contrast media and radioactive pharmaceuticals from suppliers and hospital dispensaries SA17. Discuss procedural suggestions, equipment malfunctions and personnel problems with the senior technologists, unit or department supervisors or administrative staff SA18. Comfort patients who may be frightened or upset during scanning procedures SA19. Discuss patients' status with nurses, social workers, dieticians or other members of the extended health care team
B. Professional Skills	Decision Making
	 The user/individual on the job needs to know and understand how to: SB1. Choose the correct film size for the sizes of the areas to be scanned SB2. Decide on a course of action when physicians have requested types of radiographs or scans for patients who cannot be positioned in a typical way SB3. Decide which patients will be processed first when they receive multiple requisitions at the same time, or during emergencies SB4. Decide if examinations can be completed under contraindicative or complicating circumstances
	Plan and Organise
	 The user/individual on the job needs to know and understand: SB5. How to determine the order and priority of work tasks subject to confirmation or approval from supervisors SB6. How to integrate work plans with those of the extended health care teams SB7. How to schedule daily work priorities based on the demands of the clinic, laboratory or hospital SB8. How to schedule patient-load based on emergency or appointment priority
	Customer Centricity
	 The user/individual on the job needs to know and understand how to: SB9. Comfort patients who may be frightened or upset during scanning procedures SB10. Liaise with members of the health care team to ensure the needs of the patient are met







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Comprehend conventional radiological needs of patients

	Problem Solving
	The user/individual on the job needs to know and understand how to:
	 SB11. Indicate important scanning parameters on x-rays or scanned images, such as appropriate spatial or directional indicators when these have been neglected earlier in the process SB12. Recommend alternate scan types/ positions and discuss these with the radiologist when the scan recommended by the physician is not possible or is difficult for the patient SB13. Re-schedule appointments when patients arriving for exams are late or have not taken the necessary pre-appointment measures such as fasting or refraining from taking interfering medications SB14. Troubleshoot radiological equipment when a minor fault occurs
	Analytical Thinking
	 The user/individual on the job needs to know and understand how to: SB15. Analyse the prescription of the patient and decide on the best position to take the recommended scan SB16. Analyse the scan images to determine ality and clarity SB17. Analyse the inventory of supplies to decide when to place an order to replenish these
0	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB18. Make preliminary judgements about the seriousness of patients' injuries SB19. Evaluate the quality of radiographs, digital images and scans

NOS Version Control

NOS Code	HSS/ N 0711		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	19/11/2015
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	08/04/2016
Occupation	X Ray Technician	Next review Date	07/04/2019







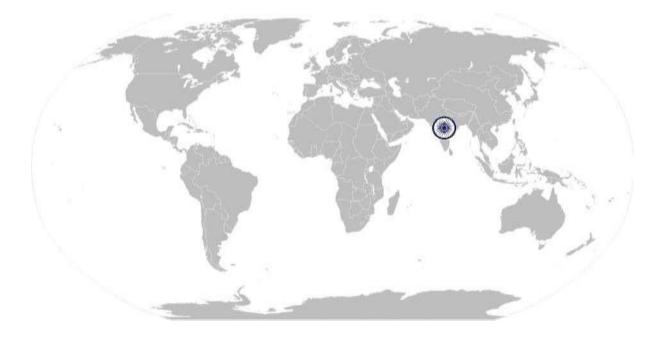


HSS/ N 0712:

National Occupational Standards

Prepare the patient and the room for Conventional Radiological procedure

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X- ray Technician to prepare the patient and the room for carrying out conventional radiological procedure. This includes positioning the patient correctly and taking safety precautions.







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National Skill Development Corporation



HSS/ N 0712:

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Prepare the patient and the room for Conventional Radiological procedure

	Unit Code	HSS/ N 0712	
-	Unit Title (Task)	Prepare the patient and the room for the procedure	
Standard	Description	This OS unit is about preparing the room and equipment for conventional radiological procedures and positioning the patient according to the prescription	
Occupational Stan	Scope	 This unit/task covers the following: Setting up the equipment to be used, ensuring safety precautions to protect self, patients, staff and others from exposure to radiation, positioning of the patient correctly. 	
edno	Performance Criteria (Pe	C) w.r.t. the Scope	
	Element	Performance Criteria	
National	 Setting up the equipment for images & ensuring safety from radiation to self, coworkers etc. 	 To be competent, the user/individual on the job must be able to: PC1. Prepare the room, apparatus and instruments for conventional radiological procedures like X-ray, BMD or Mammography PC2. Set up the machine for the desired procedure PC3. Position the patient correctly for an x-ray in the following positions: a. Frect b. Sitting c. Supine d. Prone e. Lateral f. Oblique g. Decubitus PC4. Explain relative positions of x-ray tube and patient and the relevant exposure factors related to these PC5. Explain the use of accessories such as Radiographic cones, grid and positioning aids PC6. Explain the anatomic and physiological basis of the procedure to be undertaken PC7. Explain the radiographic appearances of both normal and common abnormal conditions in order to ensure application of the appropriate radiographic technique PC8. Apply modifications in positioning technique for various disabilities and types of subject PC9. Explain the principles of radiation physics detection and measurement PC10. Explain the principles of radiation protection: a. Maximum permissible exposure concept b. Annual dose equivalent limits (ADEL) ALARA concept international recommendations and current code of practice for the protection of persons against ionising radiation from medical and dental use 	









HSS/ N 0712:

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Prepare the patient and the room for Conventional Radiological procedure

PC12. Explain the use of protective materials: a. Lead b. Lead – impregnated substances c. Building materials d. Concept of barriers e. Lead equivalents and variations f. Design of x-ray tubes related to protection. g. Structural shielding design (work-load, use factor, distance PC13. Explain the instruments of radiation protection, use of gon practical methods for reducing radiation dose to the patient PC14. Ensure protection of self, patients, departmental staff and radiation through use of protection instruments and monit and the work area Knowledge and Understanding (K)	ad shield and nt public from
A. Organisational The user/individual on the job needs to know and understand:	
Context KA1. Internal procedures and policies with respect to radiologic	cal equipment and
(Knowledge of the KA2. Internal procedures and policies on safety precautions to	ha takan whan
Healthcare operating radiological equipment	be taken when
provider/ Craphication and KA3. Administrative policies and disciplinary procedures	
Organisation and its processes) KA4. Mandatory regulations on safety and risk mitigation when	noperating
Its processes) radiological equipment KA5. Routine basic maintenance procedures for radiological equipment	uipment
KA6. How to contact vendors and suppliers for maintenance an radiological equipment	
KA7. How to order new supplies based on the inventory policy (Clinic, Hospital, Diagnostic centre) with regards to radiolo contrast agents and other materials used in scans	-
KA8. Documentation required of medical history of patient, pro	ocedures
undertaken and reports	
KA9. Medico-legal considerations for Radiology Technicians inc ethical responsibilities, definitions of misconduct and mal handling female patients	-
KA10. Penalties for misconduct and malpractice	
B. Technical KnowledgeThe user/individual on the job needs to know and understand:KB1.Various positioning techniques for carrying out convention	nal radiologic
procedures :	
a. Erect	
b. Sitting	
c. Supine d. Prone	
e. Lateral	
f. Decubitus etc.	



NOS





National Occupational Standards

/ N 0712: Pr	repare the patient and the room for Conventional Radiological procedure
	 KB2. The supplies and materials required for taking an X-ray KB3. How to operate radiographic apparatus required for taking an X-ray scan
	KB4. How to protect self, patients, departmental staff and
	public from radiation exposure through use of protection
	instruments and monitoring personnel and the work area
	instruments and monitoring personner and the work area
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. Write short notes to co-workers and clerical staff to compile information
	about particular patients, describe unusual pathologies or ask for on-site reference material
	SA2. Write brief observations about pathologies that may affect diagnoses on
	patients' charts as directed by radiologist
	SA3. Write detailed notes about scans done
	SA4. Write descriptions of accidents and incidents on reporting forms when
	something unusual occurs during patient exams or scanning procedures
	SA5. Write memos to advise, inform or direct staff working in other hospital or
	clinic departments or units
	SA6. Complete patients' medical history forms by entering the patients' names,
	treatments received to date and current medical conditions
	CARLES DI VIA CORDEN
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA7. Read scan instructions in notes attached to patients' files
	SA8. Read communications about scheduling, training and updates to internal
	procedures from co-workers, supervisors or hospital administrators
	SA9. Read protocol updates and hospital policy changes
	SA10. Read and follow all specified procedures in the multi-page treatment
	prescriptions prepared by referring physicians
	SA11. Review protocols for scanning and identifying non-routine or atypical
	pathologies in procedure manuals
	SA12. Read reports of varying lengths completed by physicians, hospital or clinic
	administrators and supervising technologists
	SA13. Read user manuals for various types of radiological equipment when
	troubleshooting faults with scanners or imaging computers
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA14. Speak to patients to explain protocols for procedures or examinations, obtain
	information about the patient's status and discuss current diagnoses and
	treatment options



NOS





National Occupational Standards

HSS/ N 0712: Prep	pare the patient and the room for Conventional Radiological procedure	
	 SA15. Speak with reception and clerical staff to determine and confirm the number of appointments for the day, request patient information from files and loggings of appointments for patients requiring additional testing or treatment SA16. Discuss scheduling, treatment room assignments and workload responsibilities with employees and co-workers SA17. Discuss procedural suggestions, equipment malfunctions and personnel problems with the senior technologists, unit or department supervisors or administrative staff SA18. Comfort patients who may be frightened or upset during scanning procedures SA19. Discuss patients' status with nurses, social workers, dieticians or other members of the extended health care team 	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	 SB1. Decide the supplies and materials required for the procedure SB2. Choose the correct film size for the sizes of the areas to be scanned SB3. Decide on a course of action when physicians have requested types of radiographs or scans for patients who cannot be positioned in a typical way SB4. Decide which patients will be processed first when they receive multiple requisitions at the same time, or during emergencies SB5. Decide if examinations can be completed under contraindicative or complicating circumstances 	
	Plan and Organise	
	The user/individual on the job needs to know and understand:	
	 SB6. How to determine the order and priority of work tasks subject to confirmation or approval from supervisors SB7. How to integrate work plans with those of the extended health care teams SB8. How to schedule daily work priorities based on the demands of the clinic, laboratory or hospital SB9. How to schedule patient-load based on emergency or appointment priority 	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to:	
	 SB10. Comfort patients who may be frightened or upset during scanning procedures SB11. Liaise with members of the extended health care team to ensure the needs of the patient are taken care of 	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB12. Indicate important scanning parameters on x-rays or scanned images, such as appropriate spatial or directional indicators when these have been neglected earlier in the process	







National Occupational Standards

HSS/ N 0712:

Prepare the patient and the room for Conventional Radiological procedure

SB13. Recommend alternate scan types/ positions and discuss these with the radiologist when the scan recommended by the physician is not possible or is difficult for the patient
SB14. Re-schedule appointments when patients arriving for exams are late or have not taken the necessary pre-appointment measures such as fasting or
refraining from taking interfering medications
SB15. Troubleshoot radiological equipment when a minor fault occurs
Analytical Thinking
The user/individual on the job needs to know and understand how to:
SB16. Analyse the prescription of the patient and decide on the best position to take the recommended scan
SB17. Analyse the scan images to determine quality and clarity
SB18. Analyse the inventory of supplies to decide when to place an order to replenish these
Critical Thinking
The user/individual on the job needs to know and understand how to:
 SB19. Make preliminary judgements about the seriousness of patients' injuries SB20. Evaluate the quality of radiographs, digital images and scans in terms of colour and contrast

NOS Version Control

NOS Code	HSS/ N 0712		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	19/11/2015
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	08/04/2016
Occupation	X ray Technician	Next review date	07/04/2019



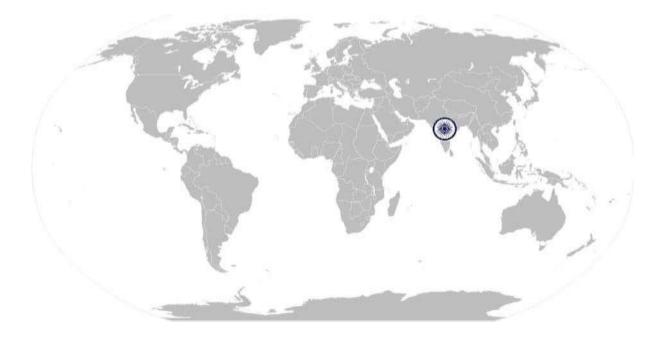






Operate and oversee operation of conventional radiological equipment

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X- ray Technician to operate and oversee operation of conventional radiological equipment to perform scans prescribed for patients.









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National Occupational Standards

Operate and oversee operation of conventional radiological equipment

Unit Code	HSS/ N 0713	
Unit	Operate and everyon encyclication of rediclocic equipment	
Title	Operate and oversee operation of radiologic equipment	
Description Scope	 This OS unit is about operating and overseeing operation of conventional radiological equipment to perform the scans as per patients prescription This unit/task covers the following: Selecting and performing basic views and conventional studies using appropriate radiographic parameters and equipment, selecting and performing contrast studies using appropriate radiographic parameters and equipment and equipment under guidance of radiologist, carrying out routine procedures for troubleshooting and maintenance of imaging and processing systems. 	
Performance Criteria (I	PC) w.r.t. the Scope	
Element	Performance Criteria	
 Performi ng basic views and conventional studies using appropriate radiographic parameters and equipment & troubleshooti ng and maintenance of imaging and processing systems. 	 To be competent, the user/individual on the job must be able to: PC1. Describe the construction and operation of general radiographic equipment PC2. Reliably perform all non-contrast plain Radiography, and contrast radiography in special situations PC3. Apply quality control procedures for all radiologic equipment PC4. Control and manipulate parameters associated with exposure and processing to produce a required image of desirable quality PC5. Practice the procedures employed in producing a radiographic image PC6. Describe methods of measuring exposure and doses of radiographic beams PC7. Discuss and apply radiation protection principles and codes of practice PC8. Demonstrate an understanding of processing of images in digital form and be familiar with recent advances in imaging PC9. Set up the X-ray machine for the procedure PC10. Carry out routine procedures associated with maintenance of imaging and processing systems PC11. Ensure protection of patients, departmental staff and public from radiation through use of protection instruments and monitoring personnel and the work area 	

Knowledge and Understanding (K)









National Occupational Standards

A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes) B. Technical Knowledge	 The user/individual on the job needs to know and understand: KA1. Internal procedures and policies with respect to radiological equipment and scans KA2. Internal procedures and policies on safety precautions to be taken when operating radiological equipment KA3. Administrative policies and disciplinary procedures KA4. Mandatory regulations on safety and risk mitigation when operating radiological equipment KA5. Routine basic maintenance procedures for radiological equipment KA6. How to contact vendors and suppliers for maintenance and repair of radiological equipment KA7. How to order new supplies based on the inventory policy of the organisation (Clinic, Hospital, Diagnostic centre) with regards to radiological supplies, contrast agents and other materials used in scans KA8. Documentation required of medical history of patient, procedures undertaken and reports KA9. Medico-legal considerations for Radiology Technicians including clinical and ethical responsibilities, definitions of misconduct and malpractice and handling female patients KA10. Penalties for misconduct and malpractice The user/individual on the job needs to know and understand: KB1. The basic principles essential for operation of an X-ray machine: a. X-Ray and related equipment b. Main electric supply and distribution c. Diagnostic X-Ray generators - high frequency/shared e. Cassettes/construction/types/care f. Grid/construction/types/care f. Grid/construction/types/care 	
B. Technical	ethical responsibilities, definitions of misconduct and malpractice and handling female patients KA10. Penalties for misconduct and malpractice	
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Skills (S)	 a. X-Ray and related equipment b. Main electric supply and distribution c. Diagnostic X-Ray circuits/Exposure timers/AEC etc. d. Specialized X-Ray generators - high frequency/shared 	
A. Core Skills/	Writing Skills	









Generic	The user/ individual on the job needs to know and understand how to:
Skills	
	SA1. Write short notes to co-workers and clerical staff to compile information about particular patients, describe unusual pathologies or ask for on-site reference material
	SA2. Write brief observations about pathologies that may affect diagnoses on patients' charts as directed by radiologist
	SA3. Write detailed notes about scans done
	SA4. Write descriptions of accidents and incidents on reporting forms when something unusual occurs during patient exams or scanning procedures
	SA5. Write memos to advise, inform or direct staff working in other hospital or clinic departments or units
	SA6. Complete patients' medical history forms by entering the patients' names,
	treatments received to date and current medical conditions
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA7. Read scan instructions in notes attached to patients' files
	SA8. Read communications about scheduling, training and updates to internal
	procedures from co-workers, supervisors or hospital administrators SA9. Read protocol updates and hospital policy changes
	SA10. Read and follow all specified procedures in the multi-page treatment prescriptions prepared by referring physicians
	SA11. Review protocols for scanning and identifying non-routine or atypical pathologies in procedure manuals
	SA12. Read reports of varying lengths completed by physicians, hospital or clinic administrators and supervising technologists
	SA13. Read user manuals for various types of radiological equipment when
	troubleshooting faults with scanners or imaging computers
	Oral Communication (Listening and Speaking skills)









	The user/individual on the job needs to know and understand how to:
	 SA14. Speak to patients to explain protocols for procedures or examinations, obtain information about the patient's status and discuss current diagnoses and treatment options SA15. Speak with reception and clerical staff to determine and confirm the number of appointments for the day, request patient information from files and loggings of appointments for patients requiring additional testing or treatment SA16. Discuss scheduling, treatment room assignments and workload responsibilities with employees and co-workers SA17. Discuss procedural suggestions, equipment malfunctions and personnel problems with the senior technologists, unit or department supervisors or administrative staff SA18. Comfort patients who may be frightened or upset during scanning procedures SA19. Discuss patients' status with nurses, social workers, dieticians or other members of the extended health care team
B. Professional Skills	Decision Making The user/individual on the job needs to know and understand how to: SB1. Choose the correct film size for the sizes of the areas to be scanned SB2. Decide on a course of action when physicians have requested types of radiographs or scans for patients who cannot be positioned in a typical way SB3. Decide which patients will be processed first when they receive multiple requisitions at the same time, or during emergencies SB4. Decide if examinations can be completed under contraindicative or complicating circumstances
	Plan and Organise









The u	ser/individual on the job needs to know and understand:
SB5. SB6.	How to determine the order and priority of work tasks subject to confirmation or approval from supervisors How to integrate work plans with those of the extended health care team
360.	SB7.How to schedule daily work priorities based on the demands of the clinic, laboratory or hospital
SB8.	How to schedule patient-load based on emergency or appointment priority
Custo	mer Centricity
The u	ser/individual on the job needs to know and understand how to:
SB9.	Comfort patients who may be frightened or upset during scanning procedures
SB10.	Liaise with members of the extended health care team to ensure the needs of the patient are met
Proble	em Solving
SB11. SB12. SB13.	ser/individual on the job needs to know and understand how to: Indicate important scanning parameters on x-rays or scanned images, such as appropriate spatial or directional indicators when these have been neglected earlier in the process Recommend alternate scan types/ positions and discuss these with the radiologist when the scan recommended by the physician is not possible or is difficult for the patient Re-schedule appointments when patients arriving for exams are late or have not taken the necessary pre-appointment measures such as fasting or refraining from taking interfering medications Troubleshoot radiological equipment when a minor fault occurs
Analy	tical Thinking









Operate and oversee operation of conventional radiological equipment

The user/individual on the job needs to know and understand how to:
SB15. Analyse the prescription of the patient and decide on the best position to take the recommended scanSB16. Analyse the scan images to determine quality and claritySB17. Analyse the inventory of supplies to decide when to place an order to replenish these
Critical Thinking
The user/individual on the job needs to know and understand how to:
SB18. Make preliminary judgements about the seriousness of patients' injuriesSB19. Evaluate the quality of radiographs, digital images and scans

NOS Version Control

NOS Code	HSS/ N 0713		Ria .
Credits(NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/2013
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/2015
Occupation	X Ray Technician	Next review date	19/11/2017



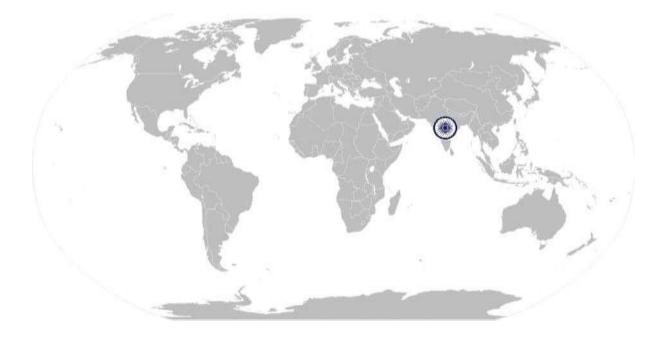






Process X-ray films/ Images

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X- ray Technician to process X-ray films/ Images





National Occupational Standards





HSS/N 0714: Process X-ray films/ Images

	Unit Code	HSS/ N 0714	
	Unit Title		
	(Task)	Process radiographic images	
Description This OS unit is about processing of X-ray films/ Images Scope This unit/task covers the following: 		This OS unit is about processing of X-ray films/ Images	
		 Processing X-ray films/ Images & Carrying out quality control tests on images 	
	Performance Criteria (P	PC) w.r.t. the Scope	
	Element Performance Criteria		
	 Processing X-ray films & carry out quality control tests on images obtained 	 To be competent, the user/individual on the job must be able to: PC1. Explain the principles of conventional radiographic imaging PC2. Apply knowledge of conventional radiographic imaging to the production of radiographs and the assessment of image quality PC3. Understand the construction and operation of image processing equipment PC4. Control and manipulate parameters associated with exposure and processing to produce a required image of desirable quality PC5. Perform X-ray film / image processing techniques (including dark room techniques) PC6. Explain and implement the fundamental concepts and applications of processing of images in digital form using computer based systems PC7. Carry out quality control for automatic film processing, evaluate and act on results 	
	Knowledge and Underst	canding (K)	
	A. Organisational	The user/individual on the job needs to know and understand:	
	Context (Knowledge of the Healthcare provider/ Organisation and its processes)	 KA1. Internal procedures and policies with respect to radiological equipment and scans KA2. Internal procedures and policies on safety precautions to be taken when operating conventional radiological equipment KA3. Administrative policies and disciplinary procedures KA4. Mandatory regulations on safety and risk mitigation when operating radiological equipment KA5. Routine basic maintenance procedures for radiological equipment KA6. How to contact vendors and suppliers for maintenance and repair of radiological equipment KA7. Inventory policy of the organisation with regard to radiological supplies, contrast agents and other materials used in scans KA8. How to order new supplies KA9. Documentation required of medical history of patient, procedures undertaken and reports KA10. Medico-legal considerations for Radiology Technicians including clinical and 	







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HSS/ N 0714:

Process X-ray films/ Images

	ethical responsibilities, definitions of misconduct and malpractice and handling female patients KA11. Penalties for misconduct and malpractice	
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. The equipment for processing X-ray images: a. X-ray Films and X-ray cassettes b. Intensifying screens c. X-ray films types structure & quality – choosing films for different studies d. Dry & wet processing e. film processing methods - manual and automatic processing of conventional & modern images f. types & maintenance of processing rooms and image processing equipment g. systems advantages & disadvantages of day light systems h. Typical processing faults i. Production of best quality images in glossy prints and paper prints etc. j. Uses of intensifying screen, fluorescence and structure of intensifying screens KB2. Functions of equipment used for film processing: a. Functions of various components b. Film roller transport - transport time, film feed system, c. Importance and relation to temp, fixed and variable time cycles. d. Care and maintenance (cleaning routine and methods of cleaning) 	



NOS

National Occupational Standards





 Functions and fundamentals of a Dark Room Setting up the processing area Dark room design, construction, illumination, entrance safe lighting - types Storage, shelving of films Cleaning and maintenance Techniques and principles of Film Processing Principles of Acidity, alkalinity, pH, the processing cycle, development, developer solution Principles of Fixing, fixer solution, washing, drying replenishment, checking and adjusting Replenishment rates, manual and automatic processing Silver recovery Auto and manual chemicals Fundamentals of X-Ray film and Image processing Composition of single and double coated radiographic films, structure of emulsion, film characteristics (speed, base + fog, gamma, latitude) Effect of grain size on film response to exposure, interpretation of characteristics curve Latent image formation ; process of film developing (composition of fixer, developer and other processing solution) Common errors and faults while processing (densitometry), automatic processing (processing cycle), developer replenishment, silver recovery and economics Image intensifiers and cassettes (structure and function) Types of image intensifiers and relative advantage
 g. Loading and unloading of cassettes and their care/maintenance h. Effects of kV and mA on variation of emitted radiation intensity, determination of relative speeds, film contrast, film screen contact i. Film storage, handling KB6. Factors affecting Image Quality a. Meaning of radiographic image contrast, density, resolution, sharpness, magnification and distortion of image, noise and blur b. Radiographic illuminators and viewing conditions, visual acuity and resolution c. Quality assurance of the related equipment and its benefits with respect to visual assessment
resolution c. Quality assurance of the related equipment and its benefits with respect







N·S·D·C

Process X-ray films/ Images

. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	 SA1. Write short notes to co-workers and clerical staff to compile information about particular patients, describe unusual pathologies or ask for on-site reference material SA2. Write brief observations about pathologies that may affect diagnoses on retirected shorts on diagnoses that may affect diagnoses on
	 patients' charts as directed by radiologist SA3. Write descriptions of accidents and incidents on reporting forms when something unusual occurs during patient exams or scanning procedures SA4. Write memos to advise, inform or direct staff working in other hospital or clinic departments or units
	SA5. Complete patients' medical history forms by entering the patients' names, treatments received to date and current medical conditions
	Reading Skills
	 The user/individual on the job needs to know and understand how to: SA6. Read scan instructions in notes attached to patients' files SA7. Read communications about scheduling, training and updates to internal procedures from co-workers, supervisors or hospital administrators SA8. Read protocol updates and hospital policy changes SA9. Read and follow all specified procedures in the multi-page treatment prescriptions prepared by referring physicians SA10. Review protocols for scanning and identifying non-routine or atypical pathologies in procedure manuals SA11. Read reports of varying lengths completed by physicians, hospital or clinic administrators and supervising technologists SA12. Read user manuals for various types of radiological equipment when troubleshooting faults with scanners or imaging computers







N·S·D·C

National Skill Development Corporation

Process X-ray films/ Images

Oral Communication (Listening and Speaking skills)

	The user/individual on the job needs to know and understand how to:	
	SA13. Speak to patients to explain protocols for procedures or examinations, obtain	
	information about the patient's status and discuss current diagnoses and	
	treatment options	
	SA14. Speak with reception and clerical staff to determine and confirm the number	
	of appointments for the day, request patient information from files and	
	loggings of appointments for patients requiring additional testing or	
	treatment	
	SA15. Discuss scheduling, treatment room assignments and workload	
	responsibilities with employees and co-workers	
	SA16. Order supplies such as contrast media and radioactive pharmaceuticals from	
	suppliers and hospital dispensaries	
	SA17. Discuss procedural suggestions, equipment malfunctions and personnel	
	problems with the senior technologists, unit or department supervisors or	
	administrative staff	
	SA18. Comfort patients who may be frightened or upset during scanning procedures	
	SA19. Discuss patients' status with nurses, social workers, dieticians or other	
	members of the extended health care team	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB1. Decide the supplies and materials required for the procedure	
	SB2. Choose the correct film size for the sizes of the areas to be scanned	
	SB3. Decide on a course of action when physicians have requested types of	
	radiographs or scans for patients who cannot be positioned in a typical way	
	SB4. Decide which patients will be processed first when they receive multiple	
	requisitions at the same time, or during emergencies	
	SB5. Decide if examinations can be completed under contraindicative or	
	complicating circumstances	
	Plan and Organise	
	The user/individual on the job needs to know and understand:	
	CDC Use to determine the ender and minits of weak to be achieved to confirmation	
	SB6. How to determine the order and priority of work tasks subject to confirmation or approval from supervisors	
	SB7. How to integrate work plans with those of the extended health care teams	
	SB8. How to schedule daily work priorities based on the demands of the clinic,	
	laboratory or hospital	
	SB9. How to schedule patient-load based on emergency or appointment priority	
	sest and to seneate patient load based on emergency of appointment phoney	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to:	









National Occupational Standards

Process X-ray films/ Images

SB10 SB11	
Prob	lem Solving
The	user/individual on the job needs to know and understand how to:
SB12	 Indicate important scanning parameters on x-rays or scanned images, such as appropriate spatial or directional indicators when these have been neglected earlier in the process
SB13	•
SB14	Re-schedule appointments when patients arriving for exams are late or have not taken the necessary pre-appointment measures such as fasting or refraining from taking interfering medications
SB15	5. Troubleshoot radiological equipment when a minor fault occurs
Anal	ytical Thinking
SB16 SB17 SB18	 Analyse the inventory of supplies to decide when to place an order to replenish these
Critic	cal Thinking
The	user/individual on the job needs to know and understand how to:
SB19 SB20	

NOS Version Control

NOS Code	HSS/ N 0714		
Credits(NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	19/11/2015
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	08/04/2016
Occupation	X ray Technician	Next review Date	07/04/2019









National Occupational Standards Prepare and document conventional radiological reports

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X- ray Technician to prepare and document reports of scans under guidance of Radiologist.









HSS/ N 0715: Prepare and document conventional radiological reports

_	Unit Code	HSS/ N 0715	
	Unit Title		
rd	(Task)	Prepare and document reports	
Standard	Description	This OS unit is about taking the advice of a Radiologist on images obtained from scans	
an		and preparing a report for the patient and updating relevant document	
St	Scope	This unit/task covers the following:	
National Occupational		 Taking the advice of a radiologist on the scans performed, preparing reports for patient duly checked and signed by radiologist along with relevant documents & updating the same as per advice of Radiologist 	
DCC	Performance Criteri	a (PC) w.r.t. the Scope	
ו al (Element	Performance Criteria	
tior	Prepare	To be competent, the user/individual on the job must be able to:	
Na	draft		
	reports after	PC1. Correctly identify anatomical features on the radiographs and identity some major pathological and traumatic conditions	
	seeking	PC2. Seek the advice of the Radiologist on conditions identified	
	advice of a	PC3. Document the comments and diagnosis of the Radiologist in a report for the	
	radiologist	patient	
		PC4. Maintaining the patient record	
	Knowledge and Und	lerstanding (K)	
	A. Organisational	The user/individual on the job needs to know and understand:	
	Context		
	(Knowledge of t	e KA1. Internal procedures and policies with respect to radiological equipment and scans	
	Healthcare	KA2. Internal procedures and policies on safety precautions to be taken when	
	provider/	operating radiological equipment	
	Organisation and	KAS. Autimistrative policies and disciplinary procedures	
	its processes)	KA4. Mandatory regulations on safety and risk mitigation when operating radiological equipment	
		KA5. Routine basic maintenance procedures for radiological equipment	
		KA6. How to contact vendors and suppliers for maintenance and repair of radiological equipment	
		KA7. Inventory policy of the organisation with regard to radiological supplies, contrast agents and other materials used in scans	
		KA8. How to order new supplies	
		KA9. Documentation required of medical history of patient, procedures	
		undertaken and reports	
		KA10. Medico-legal considerations for Radiology Technicians including clinical and	
		ethical responsibilities, definitions of misconduct and malpractice and	
		handling female patients	
		KA11. Penalties for misconduct and malpractice	







N·S·D·C National Skill Development Corporation

National Occupational Standards

HSS/ N 0715: Prepare and document conventional radiological reports

B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. The anatomical features on the radiographs
	KB2. How to identity major pathological and traumatic conditions
	KB3. Common emergency conditions in radiography like:
	Misplaced nasogastric tube/endotracheal (E-T) tube/central venous catheter
	Simple/tension pneumothorax
	Pleural effusion
	Lung/lobar collapse
	Lung consolidation
	Heart failure
	Foreign body
	Pneumoperitoneum (on erect CXR)
	Small/Large bowel obstruction
	Bone fractures
	Joint dislocation
	Joint effusion
	Lipohaemarthrosis
	KB4. How to seek the opinion of the radiologist on the scan images/ radiographs
	produced
	KB5. How to document the comments and dagrosis of the radiologist in a report
	KB6. How to adhere to standards and formats prescribed for reports
	KB7. How to explain the report contents to the patient if required
	KB8. How to maintain and retrieve patient records
Skills (S)	
A. Core Skills/	Writing Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
	SA1. Write short notes to co-workers and clerical staff to compile information
	about particular patients, describe unusual pathologies or ask for on-site
	reference material
	SA2. Write brief observations about pathologies that may affect diagnoses on
	patients' charts as directed by radiologist
	SA3. Write descriptions of accidents and incidents on reporting forms when
	something unusual occurs during patient exams or scanning procedures
	SA4. Write memos to advise, inform or direct staff working in other hospital or
	clinic departments or units
	SA5. Complete patients' medical history forms by entering the patients' names,
	treatments received to date and current medical conditions
	Reading Skills





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National Occupational Standards

Prepare and document conventional radiological reports

	The user/individual on the job needs to know and understand how to:			
	SA6. Read scan instructions in notes attached to patients' files			
	SA7. Read communications about scheduling, training and updates to internal procedures from co-workers, supervisors or hospital administrators			
	SA8. Read protocol updates and hospital policy changes			
	SA9. Read and follow all specified procedures in the multi-page treatment			
	prescriptions prepared by referring physicians			
	SA10. Review protocols for scanning and identifying non-routine or atypical			
	pathologies in procedure manuals			
	SA11. Read reports of varying lengths completed by physicians, hospital or clinic administrators and supervising technologists			
	SA12. Read user manuals for various types of radiological equipment when			
	troubleshooting faults with scanners or imaging computers			
	Oral Communication (Listening and Speaking skills)			
	 SA13. Speak to patients to explain protocols for procedures or examinations, obtain information about the patient's status and discuss current diagnoses and treatment options SA14. Speak with reception and clerical staff to determine and confirm the number of 			
-	Decision Making			
-	The user/individual on the job needs to know and understand how to:			
	SB1. Decide the supplies and materials required for the procedure			
	Plan and Organise			
	The user/individual on the job needs to know and understand:			
	SB6. How to determine the order and priority of work tasks subject to confirmation			
	Customer Centricity			
	The user/individual on the job needs to know and understand how to:			
	SB10. Comfort patients who may be frightened or upset during scanning procedures			
	Problem Solving			









Prepare and document conventional radiological reports

-	
	he user/individual on the job needs to know and understand how to:
	 B12. Indicate important scanning parameters on x-rays or scanned images, such as appropriate spatial or directional indicators when these have been neglected earlier in the process B13. Recommend alternate scan types/ positions and discuss these with the radiologist when the scan recommended by the physician is not possible or is
SI	difficult for the patient B14. Re-schedule appointments when patients arriving for exams are late or have not taken the necessary pre-appointment measures such as fasting or refraining from taking interfering medications
SI	B15. Troubleshoot radiological equipment when a minor fault occurs
A	nalytical Thinking
T	he user/individual on the job needs to know and understand how to:
SI	B16. Analyse the prescription of the patient and decide on the best position to take the recommended scan
S	B17. Analyse the scan images to determine quality and clarity
SI	B18. Analyse the inventory of supplies to decide when to place an order to replenish these
С	ritical Thinking
T	he user/individual on the job needs to know and understand how to:
	B19. Make preliminary judgements about the seriousness of patients' injuries

NOS version control

NOS Code	HSS/ N 0715		
Credits (NSQF)	TBD	Version number	1.0
	Health		19/11/2015
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	08/04/2016
Occupation	X Ray Technician	Next review Date	07/04/2019



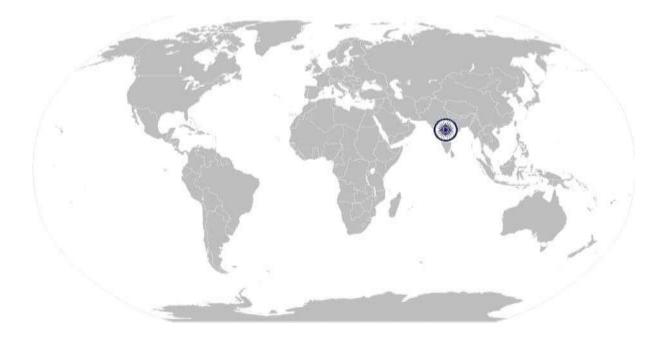






Recognize Healthy body systems

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an X- ray Technician to work with basic information about the human body and to recognize and promote ways to maintain healthy functioning of the body.









National Occupational Standards

Recognize Healthy body systems

Unit Code	HSS/ N 9614
Unit Title (Task)	Recognize Healthy body systems
Description	This OS unit describes the skills and knowledge required to work with basic information about the human body and to recognize and promote ways to maintain heathy functioning of the body.
Scope	 This unit/task covers the following: Work with information about the human body & recognize and promote the ways to support healthy functioning of the body.
Performance Criteria (P	C) w.r.t. the Scope
Element	Performance Criteria
 Human body structure and support for healthy body functioning 	 To be competent, the user/individual on the job must be able to: PC1. Correctly use and interpret the medical terminology that describes normal structure, function & location of major body systems. PC2. Correctly use and interpret the information that relates to the interrelationship between major components of each body system and other structure PC3. Review the factors that contribute to maintain whole body health PC4. Evaluate how relationship between different body systems affect and support healthy functioning PC5. Enhance quality of work by using and sharing information about healthy functioning of the body
Knowledge and Unders A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes)	 tanding (K) The user/individual on the job needs to know and understand: KA1. The use & interpretation of his/her knowledge as per organizational policies and procedures KA2. Guidelines on communicating with individuals KA3. Guidelines on maintaining confidentiality and respecting need for privacy KA4. Guidelines of the organization/ health provider on communicating with individuals and patients









National Occupational Standards

HSS/ N 9614 :	Recognize Healthy body systems
B. Technical Knowledge	The user/individual on the job needs to know and understand:
	 KB1. Basic structure and function of the body system and associated component including – Cells, tissue & organ Cardiovascular system Respiratory System Musculoskeletal system Endocrine system Digestive system Urinary system Reproductive system Integumentary system Lymphatic system Nervous system including sensory system- Eye & ears Special senses – smell, taste, visual and equilibrium & Hearing Immune system KB2. Process, condition & resources required by the body to support healthy functioning Body regulation including maintenance of body temperature, fluid & electrolyte balance, elimination of body wastes, maintenance of blood pressure Protection form infection Active & Passive physical activities
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Write at least one local/ official language used in the local community SA2. Maintain any records required after the interaction Reading Skills The user/individual on the job needs to know and understand how to:

SA3. Read instructions and pamphlets provided as part of training **Oral Communication (Listening and Speaking skills)**

The user/individual on the job needs to know and understand how to:

- Speak at least one local language SA4. SA5.
 - Communicate effectively with all individuals









Recognize Healthy body systems The user/individual on the job needs to know and understand how to: SB1. Make decisions on information to be communicated based on needs of the individual and various regulations and guidelines **Plan and Organise** Not applicable **Customer Centricity** The user/individual on the job needs to know and understand how to: SB2. Be responsive to problems of the individuals SB3. Be available to guide, counsel and help individuals when required Be patient and non-judgmental at all times SB4. **Problem Solving** The user/individual on the job needs to know and understand how to: Create work-around to overcome problems faced in carrying out roles and SB5. duties **Analytical Thinking** The user/individual on the job needs to know and understand how to: SB6. Analyze, use & interpret information regarding patients anatomy & physiology **Critical Thinking**

NOS Version Control

Not applicable

NOS Code	HSS/ N 9614		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/2013
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/2015
Occupation		Next review Date	19/11/2017







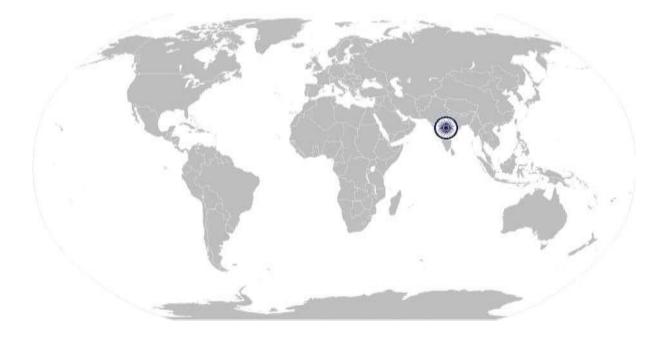


HSS/ N 9601:

National Occupational Standards

Collate and Communicate Health Information

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an Allied Health Professional to collate and communicate health related information.









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National Occupational Standards

Collate and Communicate Health Information

	Unit Code	HSS/ N 9601
-	Unit Title (Task)	Collate and Communicate Health Information
National Occupational Standard	Description	This OS unit is about collating and communicating health information to community members, their family or others in response to queries or as part of health advice and counselling. This OS unit applies to all allied health professionals required to communicate health related information to patients, individuals, families and others
Occupation	Scope	 This unit/task covers the following: Communicating with individuals, patients, their family and others about health issues
ר C	Performance Criteria (Po	C) w.r.t. the Scope
tior	Element	Performance Criteria
Natio	 Communicatin g with patient and their care givers about health issues 	 To be competent, the user/individual on the job must be able to: PC1. Respond to queries and information needs of all individuals PC2. Communicate effectively with all individuals regardless of age, caste, gender, community or other characteristics PC3. Communicate with individuals at a pace and level fitting their understanding, without using terminology unfamiliar to them PC4. Utilise all training and information at one's disposal to provide relevant information to the individual PC5. Confirm that the needs of the individual have been met PC6. Adhere to guidelines provided by one's organisation or regulatory body relating to confidentiality PC7. Respect the individual's need for privacy PC8. Maintain any records required at the end of the interaction
	Knowledge and Underst	
	A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes)	 The user/individual on the job needs to know and understand: KA1. Guidelines on communicating with individuals KA2. Guidelines on maintaining confidentiality and respecting need for privacy KA3. Guidelines of the organisation/ health provider on communicating with individuals and patients



HSS/ N 9601:







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National Occupational Standards

Collate and Communicate Health Information

B. Technical	The user/individual on the job needs to know and understand:		
Knowledge			
5	KB1. How to communicate effectively		
	KB2. When to ask for assistance when situations are beyond one's competence		
	and authority		
	KB3. How to maintain confidentiality and to respect an individual's need for privacy		
	KB4. How to ensure that all information provided to individuals is from reliable sources		
	KB5. How to handle stressful or risky situations when communicating with		
	individuals KB6. Difficulties that can occur when communicating with individuals and family		
	members in stressful situations and how to manage these		
Skills (S) (<u>Optional</u>)			
A. Core Skills/	Writing Skills		
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA1. Write at least one local/official language used in the local community SA2. Maintain any records required after the interaction		
	SA2. Waintain any records required after the interaction		
	Come The Third And The And		
	· · · · · · · · · · · · · · · · · · ·		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA3. Read instructions and pamphlets provided as part of training		
	SA3. Read instructions and pamphlets provided as part of training		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA4. Speak at least one local language		
	SA5. Communicate effectively with all individuals		
	5.15. Communicate circelively with an individuals		
B. Professional Skills	Decision Making		
	The user/individual on the job needs to know and understand how to:		
	SB1. Make decisions on information to be communicated based on needs of the		
	individual and various regulations and guidelines		
	Plan and Organise		
	Not applicable		



HSS/ N 9601:







National Occupational Standards

Collate and Communicate Health Information

C	Customer Centricity
Т	he user/individual on the job needs to know and understand how to:
S	B2. Be responsive to problems of the individuals
	B3. Be available to guide, counsel and help individuals when required
S	B4. Be patient and non-judgemental at all times
Р	Problem Solving
Т	he user/individual on the job needs to know and understand how to:
S	B5. Create work-around to overcome problems faced in carrying out roles and
	duties
Α	Analytical Thinking
	lot applicable
C	Critical Thinking
Ν	Not applicable

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NOS Version Control

NOS Code	HSS/ N 9601		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
		Next review date	19/11/17







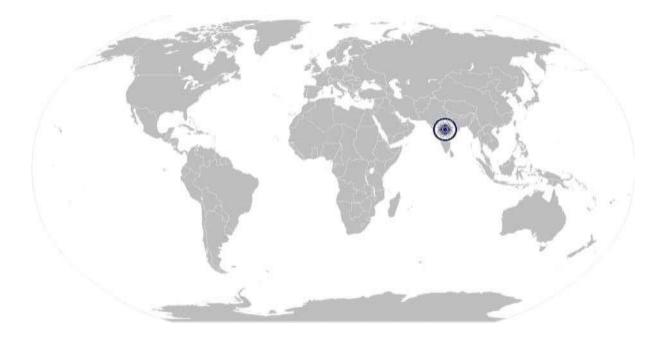


HSS/ N 9602:

National Occupational Standards

Ensure availability of medical and diagnostic supplies

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an allied health professional to ensure adequate availability of diagnostic kits, primary care medicines, treatment and other medical supplies at all times.









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National Occupational Standards

Ensure availability of medical and diagnostic supplies

_/	Unit Code	HSS/ N 9602			
	Unit Title (Task)	Ensure availability of medical and diagnostic supplies			
National Occupational Standard	Description	This OS unit is about ensuring availability of medical and diagnostic supplies to meet actual and anticipated demand. This OS unit is applicable to all allied health professionals required to maintain a supply of medical or diagnostic materials			
pational	Scope	 This unit/task covers the following: Anticipating demand and ensuring availability of adequate medical and diagnostic supplies 			
JCCU	Performance Criteria (P	Performance Criteria (PC) w.r.t. the Scope			
al C	Element	Performance Criteria			
Nation	 Medical & Diagnostic supplies management 	 To be competent, the user/individual on the job must be able to: PC1. Maintain adequate supplies of medical and diagnostic supplies PC2. Arrive at actual demand as accurately as possible PC3. Anticipate future demand based on internal, external and other contributing factors as accurately as possible PC4. Handle situations of stock-outs or unavailability of stocks without compromising health needs of patients/ individuals 			
	Knowledge and Unders	Knowledge and Understanding (K)			
	 B. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes) 	 The user/individual on the job needs to know and understand: KA1. Centres for restocking supplies KA2. Guidelines on anticipating demand for medical and diagnostic supplies KA3. Contents of all diagnostic and medical kits KA4. Guidelines on procurement and storage of medical and diagnostic kits 			
	B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. How to arrive at actual demand for medical and diagnostic supplies KB2. How to anticipate demand KB3. How to maintain/ safely store existing supplies KB4. How to maintain records of available supplies KB5. How to request additional supplies 			









HSS/ N 9602:

Ensure availability of medical and diagnostic supplies

Skil	ls (S)	
C.	Core Skills/	Writing Skills
	Generic Skills	The user/ individual on the job needs to know and understand how to:
SA1. SA2. SA3. SA4.		SA2. Write well enough to be classified as literateSA3. Record availability of supplies
		Reading Skills
		The user/individual on the job needs to know and understand how to:
		 SA5. Read well enough to be classified as literate SA6. Read records and registers for medical supplies SA7. Read instructions and pamphlets provided as part of training for ordering or maintaining supplies
		Oral Communication (Listening and Speaking skills)
		The user/individual on the job needs to know and orderstand how to: SA8. Speak at least one local language SA9. Communicate effectively to request additional supplies when required
D.	D. Professional Skills Decision Making	
		 The user/individual on the job needs to know and understand how to: SB1. Decide on the level of anticipated demand SB2. Decide when to procure additional supplies SB3. Decide quantities of medical supplies to request
		Plan and Organise
		The user/individual on the job needs to know and understand:
		 SB4. How to plan availability of medical supplies SB5. How to place requests for supplies ahead of time in order to have adequate supplies at all times
Customer Centricity		· · · · · · · · · · · · · · · · · · ·
		The user/individual on the job needs to know and understand how to:
		SB6. Cater to the need of patients/ individuals for specific medical supplies
		Problem Solving









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HSS/ N 9602: Ensure availability of medical and diagnostic supplies

The user/individual on the job needs to know and understand how to: SB7. Handle non-availability of medical supplies or diagnostic kits when required
Analytical Thinking
Not applicable
Critical Thinking
Not applicable

NOS Version Control

NOS Code	HSS/ N 9602		3.4
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
	¢.	Next review date	19/11/17

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HSS/ N 9603:

Act within the limits of one's competence and authority

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health Professional to recognise the boundaries of the role and responsibilities and working within the level of competence in accordance with legislation, protocols and guidelines









HSS/ N 9603:

Act within the limits of one's competence and authority

	Unit Code	HSS/ N 9603
	Unit Title (Task)	Act within the limits of one's competence and authority
al Standard	Description	This OS unit is about recognising the boundaries of the role and responsibilities and working within the level of competence in accordance with legislation, protocols and guidelines This is applicable to all Allied Health Professionals working in an organised, regulated environment
National Occupational	Scope	 This unit/task covers the following: Acting within the limit of one's competence and authority; Knowing one's job role Knowing one's job responsibility Recognising the job role and responsibilities of co workers Reference: 'This National Occupational Standard is from the UK Skills for Health suite [SFHGEN63, Act within the limits of your competence and authority] It has been tailored to apply to healthcare in India and has been reproduced with their permission'.
	Performance Criteria (P	C) wrt The Scope
	Element	Performance Criteria
	 Acting within the limit of one's competence and authority 	 To be competent, the user/individual on the job must be able to: PC1. Adhere to legislation, protocols and guidelines relevant to one's role and field of practice PC2. Work within organisational systems and requirements as appropriate to one's role PC3. Recognise the boundary of one's role and responsibility and seek supervision when situations are beyond one's competence and authority PC4. Maintain competence within one's role and field of practice PC5. Use relevant research based protocols and guidelines as evidence to inform one's practice PC6. Promote and demonstrate good practice as an individual and as a team member at all times PC7. Identify and manage potential and actual risks to the quality and safety of practice PC8. Evaluate and reflect on the quality of one's work and make continuing improvements
	Knowledge and Underst	
	A. Organisational Context	The user/individual on the job needs to know and understand:









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HSS/ N 9603:

Act within the limits of one's competence and authority

(Knowledge of the	KA1. The relevant legislation, standards, policies, and procedures followed in the			
Healthcare	organisation			
provider/	KA2. The medical procedures and functioning of required medical equipment			
Organisation and	KA3. Role and importance of assisting other healthcare providers in delivering care			
its processes)				
B. Technical	The user/individual on the job needs to know and understand:			
Knowledge				
	KB1. The boundaries of one's role and responsibilities and other team members			
	KB2. The reasons for working within the limits of one's competence and authority			
	KB3. The importance of personally promoting and demonstrating good practice			
	KB4. The legislation, protocols and guidelines effecting one's work			
	KB5. The organisational systems and requirements relevant to one's role			
	KB6. The sources of information that can be accessed to maintain an awareness of			
	research and developments in one's area of work			
	KB7. The difference between direct and indirect supervision and autonomous			
	practice, and which combination is most applicable in different circumstances			
	KB8. The risks to quality and safety arising from:			
	 Working outside the boundaries of competence and authority 			
	 Not keeping up to date with best practice 			
	 Poor communication 			
	 Insufficient support 			
	 Insufficient support Lack of resources 			
	KB9. The importance of individual or team compliance with legislation, protocols,			
	and guidelines and organisational systems and requirements			
	KB10. How to Report and minimise risks			
	KB11. The principle of meeting the organisation's needs, and how this should ena			
one to recognise one's own limitations and when one should seek support f				
others KB12. The processes by which improvements to protocols/guidelines and				
organisational systems/requirements should be reported				
	KB13. The procedure for accessing training, learning and development needs for			
	oneself and/or others within one's organisation			
	KB14. The actions that can be taken to ensure a current, clear and accurate			
	understanding of roles and responsibilities is maintained, and how this affects			
Skills (S)	the way one work as an individual or part of a team			
A. Core Skills	Writing Skills			
/Generic Skills	The user/individual on the job needs to know and understand how to:			
	SA1 Desument reports task lists and schedules			
SA1. Document reports, task lists, and schedules				
	SA2. Prepare status and progress reports			
SA3. Record daily activities				
SA4. Update other co-workers				
	Reading Skills			







HSS/ N 9603:

Act within the limits of one's competence and authority

	The user/individual on the job needs to know and understand how to:			
	SA5. Read about changes in legislations and organisational policies SA6. Keep updated with the latest knowledge			
	Oral Communication (Listening and Speaking skills)			
	The user/individual on the job needs to know and understand how to:			
	 SA7. Discuss task lists, schedules, and work-loads with co-workers SA8. Give clear instructions to patients and co-workers SA9. Keep patient informed about progress SA10. Avoid using jargon, slang or acronyms when communicating with a patient 			
B. Professional Skills	Decision Making			
	The user/individual on the job needs to know and understand how to: SB1. Make decisions pertaining to the concerned area of work in relation to job role Plan and Organise Not applicable Customer Centricity The user/individual on the job needs to know and understand how to: SB2. Communicate effectively with patients and their family, physicians, and other members of the health care team SB3. Be responsive and listen empathetically to establish rapport in a way that promotes openness on issues of concern SB4. Po contribute to not output differences SB5. Maintain patient			
	SB4. Be sensitive to potential cultural differences SB5. Maintain patient confidentialitySB6. Respect the rights of the patient(s)			
	Problem Solving			
	Not applicable			
	Analytical Thinking			
	Not applicable			
	Critical Thinking			
	Not applicable			
	1			









HSS/ N 9603:

Act within the limits of one's competence and authority

NOS Version Control

NOS Code	HSS/ N 9603		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
		Next review date	19/11/17







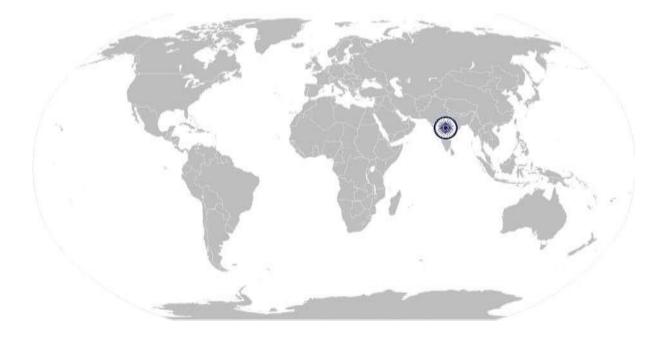




HSS/ N 9606:

Maintain a safe, healthy, and secure working environment

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health Professional to monitor the working environment, and making sure it meets health, safety and security requirements.









HSS/ N 9606:

Maintain a safe, healthy, and secure working environment

Unit Code	Code HSS/ N 9606		
Unit Title (Task)	Task) Maintain a safe, healthy, and secure working environment		
Description	This OS unit is about monitoring the working environment and ensuring a safe, healthy, secure and effective working conditions This OS unit applies to all Allied Health professionals working within an organised workplace		
Description This OS unit is about monitoring the working environment and ensuring a sathealthy, secure and effective working conditions This OS unit applies to all Allied Health professionals working within an organ workplace Scope This unit covers the following: • Complying the health, safety and security requirements and procedures workplace, Handling any hazardous situation with safely, competently a within the limits of authority, Reporting any hazardous situation and breach in procedures to ensure a safe, healthy, secure working environment Performance Criteria (PC) wrt The Scope Element Performance Criteria			
Performance Criteria (PC	C) wrt The Scope		
Element	Performance Criteria		
• Maintain a safe, healthy & secure environment	 To be competent, the user/ individual on the job must be able to: PC1. Identify individual responsibilities in relation to maintaining workplace health safety and security requirements PC2. Comply with health, safety and security procedures for the workplace PC3. Report any identified breaches in health, safety, and security procedures to the designated person PC4. Identify potential hazards and breaches of safe work practices PC5. Correct any hazards that individual can deal with safely, competently and within the limits of authority PC6. Promptly and accurately report the hazards that individual is not allowed to deal with, to the relevant person and warn other people who may get affected PC7. Follow the organisation's emergency procedures promptly, calmly, and efficiently PC8. Identify and recommend opportunities for improving health, safety, and security to the designated person PC9. Complete any health and safety records legibly and accurately 		
Knowledge and Underst			
A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes)	 To be competent, the user/ individual on the job needs to know and understand: KA1. The importance of health, safety, and security in the workplace KA2. The basic requirements of the health and safety and other legislations and regulations that apply to the workplace KA3. The person(s) responsible for maintaining healthy, safe, and secure workplace KA4. The relevant up-to-date information on health, safety, and security that applies to the workplace KA5. How to report the hazard 		
	KA6. The responsibilities of individual to maintain safe, healthy and secure workplace		









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HSS/ N 9606:	Maintain a safe, healthy, and secure working environment		
B. Technical	To be competent, the user / individual on the job needs to know and understand:		
Knowledge	KB1. Requirements of health, safety and security in workplace		
	KB2. How to create safety records and maintaining them		
	KB3. The importance of being alert to health, safety, and security hazards in the work environment		
	KB4. The common health, safety, and security hazards that affect people working in an administrative role		
	KB5. How to identify health, safety, and security hazards		
	KB6. The importance of warning others about hazards and how to do so until the		
	hazard is dealt with		
Skills (S)			
A. Generic Skills	Writing Skills		
	To be competent, the user/individual on the job needs to know and understand how		
	to:		
	SA1. Report and record incidents		
	Reading Skills		
	To be competent, the user/individual on the job needs to know and understand how		
	to: SA2. Read and understand company policies and procedures		
	Oral Communication (Listening and speaking skills)		
	To be competent, the user/individual on the job needs to know and understand how to: SA3. Clearly report hazards and incidents with the appropriate level of urgency		
B. Professional Skills	Decision Making		
	To be competent, the user/individual on the job needs to know and understand how		
	to: SB1. Make decisions pertaining to the area of work		
	Plan and Organise		
	To be competent, the user / individual on the job needs to know and understand how		
	to:		
	SB2. Plan for safety of the work environment		
	Customer Centricity		
	To be competent, the user / individual on the job needs to know and understand:		
	SB3. Communicate effectively with patients and their family, physicians, and other members of the health care team		
	SB4. Be capable of being responsive, listen empathetically to establish rapport in a way that promotes openness on issues of concern		









HSS/ N 9606:

National Occupational Standards

Maintain a safe, healthy, and secure working environment

SB5. Be sensitive to potential cultural differences
SB6. Maintain patient confidentiality
SB7. Respect the rights of the patient(s)
Problem Solving
To be competent, the user/individual on the job needs to know and understand how
to:
SB8. Identify hazards, evaluate possible solutions and suggest effective solutions
Analytical Thinking
To be competent, the user needs to know and understand how to:
SB9. Analyse the seriousness of hazards
Critical Thinking
To be competent, the user needs to know and understand how to:
SB10. Analyse, evaluate and apply the information gathered from observation,
experience, reasoning, or communication to act efficiently

NOS Version Control

NOS Version Contro			
NOS Code	HSS/ N 9606		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
		Next review date	19/11/17









HSS/ N 9608:

Follow radiation safety guidelines

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an allied health professional to follow radiation safety guidelines and provide safe environment to individuals





संदर्भव जयते GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP



HSS/ N 9608:

Follow radiation safety guidelines

National Occupational Standards

	Unit Code HSS/ N 9608				
	Unit Title (Task)	Follow radiation safety guidelines			
Standard	Description	This OS unit is about following radiation safety guidelines and to provide safe environment to individuals. These individuals include staff working and individuals undergoing treatment or diagnostic procedures. This is applicable to all Allied Health Professionals.			
National Occupational Standard	Scope	 This unit/task covers the following: Following and complying with radiation safety guidelines Reference : 'The content of this National Occupational Standard is drawn from the UK Skills for Health NOS [SFHHCS3 Ensure the safety of individuals exposed to radiation within healthcare and SFHHCS4 Measure an individual's healthcare radiation exposure to minimise risk_]' 			
ion	Performance Criteria (P	Performance Criteria (PC) w.r.t. the Scope			
Nat	Element	Performance Criteria			
	 Following radiation safety guidelines 	 To be competent, the user/individual on the job must be able to: PC1. Confirm sources of radiation and likely type of exposure for all individuals within the work area PC2. Apply appropriate assessment methodology suitable for source, type of exposure, dose, level of risk and the recipients' exposure time PC3. Confirm that all required procedures and associated safety measures are compliant with current and relevant legislation requirements PC4. Determine and assess the appropriateness of the projected radiation dose over a suitable period of time for an individual or key staff and other personnel PC5. Record the results of the assessment accurately and in correct format, referencing any monitoring measurements taken to accepted published values to indicate conformance within accepted safety guidance limits for the procedures undertaken within the work practice PC6. Communicate and provide information, advice and guidance effectively in the appropriate medium to meet the individuals needs and preferences PC7. Report actual and potential risks from radiation, in context, to other healthcare professionals and where appropriate seek assistance and advice PC8. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, policies and protocols PC9. Confirm that all required procedures and associated safety measures are current and compliant with relevant legislation PC10. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, local policies and protocols 			
	Knowledge and Underst				
	A. Organisational Context	The user/individual on the job needs to know and understand:			









HSS/ N 9608: Follow radiation safety guidelines	
(Knowledge of the Healthcare provider/ Organisation and its processes)	 KA5. Basic requirements of the health and safety and other legislations and regulations that apply to the organisation KA6. Person(s) responsible for health, safety, and security in the organisation KA7. Relevant up-to-date information on health, safety, and security that applies to the organisation KA8. Organisation's emergency procedures and responsibilities for handling hazardous situations
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. How to communicate effectively in the appropriate medium to meet all recipients' needs in relation to radiation safety KB2. The safety principles for radiation physics including therapy and diagnostic procedures KB3. The range, type and nature of radiation and associated equipment and/or
	 medical devices used within the relevant specialist areas and their work practices KB4. The importance of quality assuring the facilities, equipment and other resources for operational safety and monitoring each operational procedure for radiation safety in accordance with legislation and organisational requirements KB5. The range of permissible exposure limits applicable to diagnostic investigations or therapeutic interventions with radiation and/or radioactive substances within the organisation KB6. The importance and appropriate methodologies for radiation safety assessments within the organisation KB7. The importance and requirements for radiation safety requirements KB8. The importance of environmental monitoring to minimise the risk of accidental exposure to radiation and to identify if an adverse event occurs KB9. How to communicate and provide advice, guidance and information effectively in the appropriate medium to meet individuals needs and preferences for the measurement of radiation exposure KB10. The range, type and dose of radiation used within diagnostic or therapeutic activities KB11. The factors and circumstances of the working environment that contribute to radiation exposure and the importance of environmental monitoring KB12. How to undertake environmental monitoring of controlled work areas and the surrounding area, the acceptable limits and the implications and consequences of adverse results and who to inform
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills The user/ individual on the job needs to know and understand how to: SA1. Report and record incidents Reading Skills The user/individual on the job needs to know and understand how to:
	SA2. Read and understand company policies and procedures









HSS/ N 9608:

Follow radiation safety guidelines

	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA3. Report hazards and incidents clearly with the appropriate level of urgency		
B. Professional Skills	Decision Making		
	The user/individual on the job needs to know and understand how to:		
	SB1. Make decisions pertaining to the organisation		
	SB2. Exhibit commitment to the organisation and exert effort and perseverance		
	Plan and Organise		
	The user/individual on the job needs to know and understand how to:		
	SB3. Organise files and documents		
	SB4. Plan for safety of the work environment		
	SB5. Recommend and implement plan of action		
	Customer Centricity		
	The user/individual on the job needs to know and understand: SB6. How to make exceptional effort to keep the environment and work place safe		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB7. Identify hazards and suggest effective solutions to identified problems		
	Analytical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB8. Analyse the seriousness of hazards		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB9. Evaluate opportunities to improve health, safety and securitySB10. Show understanding and empathy for others		







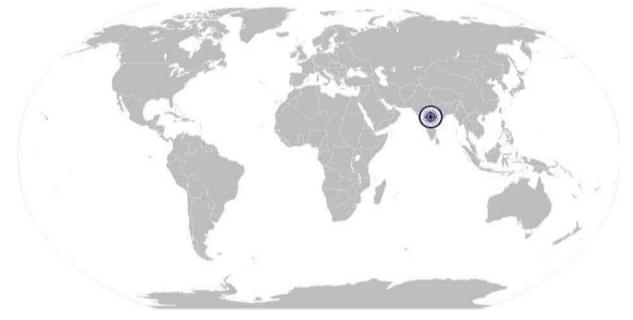


Follow radiation safety guidelines

HSS/ N 9608:

NOS Version Control

NOS Code	HSS/ N 9608		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
		Next review date	19/11/17









HSS/ N 9609:

Follow biomedical waste disposal protocols

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an Allied Health professional to manage biomedical waste









HSS/ N 9609:

Follow biomedical waste d	isposal protocols
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	Unit Code	HSS/ N 9609		
National Occupational Standard	Unit Title (Task)	Follow biomedical waste disposal protocols		
	Description	This OS unit is about the safe handling and management of health care waste. This unit applies to all Allied Health professionals.		
	Scope	 This unit/task covers the following: Classification of the Waste Generated, Segregation of Biomedical Waste & Proper collection and storage of Waste Reference : 'The content of this National Occupational Standard is drawn from the UK Skills for Health NOS [SFHCHS212 Disposal of clinical and non-clinical waste within healthcare and SFHCHS213 Implement an audit trail for managing waste within healthcare]' 		
atio	Performance Criteria (P	C) w.r.t. the Scope		
Na	Element	Performance Criteria		
Z	 Bio Medical Waste Management 	 To be competent, the user/individual on the job must be able to: PC1. Follow the appropriate procedures, policies and protocols for the method of collection and containment level according to the waste type PC2. Apply appropriate health and safety measures and standard precautions for infection prevention and control and personal protective equipment relevant to the type and category of waste PC3. Segregate the waste material from work areas in line with current legislation and organisational requirements PC4. Segregation should happen at source with proper containment, by using different colour coded bins for different categories of waste PC5. Check the accuracy of the labelling that identifies the type and content of waste PC6. Confirm suitability of containers for any required course of action appropriate to the type of waste disposal PC7. Check the waste has undergone the required processes to make it safe for transport and disposal PC8. Transport the waste to the disposal site, taking into consideration its associated risks PC9. Report and deal with spillages and contamination in accordance with current legislation and procedures PC10. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, local policies and protocols 		
	Knowledge and Unders			
	A. Organisational Context (Knowledge of the	The user/individual on the job needs to know and understand: KA1. Basic requirements of the health and safety and other legislations and		









HSS/ N 9609:

Shin Gounten		
SS/ N 9609:	Follow biomedical waste disposal protocols	
Healthcare	regulations that apply to the organisation	
provider/	KA2. Person(s) responsible for health, safety, and security in the organisation	
Organisation and	KA3. Relevant up-to-date information on health, safety, and security that applies to	
its processes)	the organisation	
its processes	KA4. Organisation's emergency procedures and responsibilities for handling	
	hazardous situations	
B. Technical	The user/individual on the job needs to know and understand:	
Knowledge		
	KB1. How to categorise waste according to national, local and organisational	
	guidelines	
	KB2. The appropriate approved disposal routes for waste	
	KB3. The appropriate containment or dismantling requirements for waste and	
	how to make the waste safe for disposal	
	KB4. The importance to adhere to the organisational and national waste	
	management principles and procedures	
	KB5. The hazards and risks associated with the disposal and the importance of risk	
	assessments and how to provide these	
	KB6. The personal protective equipment required to manage the different types	
	of waste generated by different work activities	
	KB7. The importance of working in a safe manner when carrying out procedures	
	for biomedical waste management in line with local and national policies and legislation	
	KB8. The required actions and reporting procedures for any accidents, spillages	
	and contamination involving waste	
	KB9. The requirements of the relevant external agencies involved in the transport and receipt of your waste	
	KB10. The importance of segregating different types of waste and how to do this	
	KB11. The safe methods of storage and maintaining security of waste and the permitted accumulation times	
	KB12. The methods for transporting and monitoring waste disposal and the	
	appropriateness of each method to a given scenario	
	KB13. How to report any problems or delays in waste collection and where to seek advice and guidance	
	KB14. The importance of the organisation monitoring and obtaining an assessment of the impact the waste has on the environment	
	KB15. The current national legislation, guidelines, local policies and protocols	
	which affect work practice	
	KB16. The policies and guidance that clarify your scope of practice, accountabilities	
	and the working relationship between yourself and others	
Skills (S)		
A. Core Skills/	Writing Skills	
Generic Skills	The user/ individual on the job needs to know and understand how to:	
	SA4. Report and record incidents	
	Reading Skills	









/ N 9609:	Follow biomedical waste disposal protocols	
	The user/individual on the job needs to know and understand how to:	
	SA5. Read and understand company policies and procedures for managing biomedical waste	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA6. Report hazards and incidents clearly with the appropriate level of urgency	
3. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB11. Make decisions pertaining to the area of work	
	SB12. Exhibit commitment to the organisation and exert effort and perseverance	
	Plan and Organise	
	The user/individual on the job needs to know and understand how to:	
	SB13. Organise files and documents	
	SB14. Plan for safety of the work environment	
	SB15. Recommend and implement plan of action	
	Customer Centricity	
	The user/individual on the job needs to know and understand: SB16. How to make exceptional effort to keep the environment and work place clean	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB17. Identify hazards and suggest effective solutions to identified problems of waste management	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB18. Analyse the seriousness of hazards and proper waste management	
	Critical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB19. Evaluate opportunities to improve health, safety and security	
	SB20. Show understanding and empathy for others	







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National Occupational Standards

Follow biomedical waste disposal protocols

NOS Version Control

NOS Code	HSS/ N 9609		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15
		Next review date	19/11/17









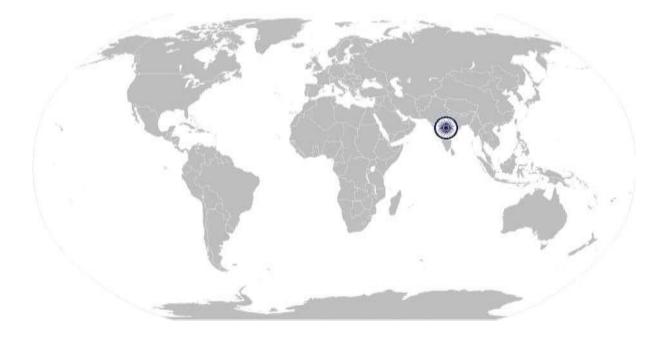


HSS/ N 9610:

National Occupational Standards

Follow infection control policies and procedures

National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health professional to comply with infection control policies and procedures.



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National Occupational Standards

	Unit Code	HSS/ N 9610		
	Unit Title (Task)	Follow infection control policies and procedures		
ndard	Description	This OS unit is about complying with infection control policies and procedures. It is applicable to workers who are responsible for workplace procedures to maintain		
tar		infection control.		
I S		This unit applies to all Allied Health professionals.		
National Occupational Standard	Scope	 This unit/task covers the following: Complying with an effective infection control protocols that ensures the safety of the patient (or end-user of health-related products/services) & Maintaining personal protection and preventing the transmission of infections from person to person 		
nal	Performance Criteria (PC) w.r.t. the Scope			
atio	Element	Performance Criteria		
Na	Infection	To be competent, the user/individual on the job must be able to:		
Natio	control protocols	 PC1. Preform the standard precautions to prevent the spread of infection in accordance with organisation requirements. PC2. Preform the additional precautions when standard precautions alone may not be sufficient to prevent transmission of infection. PC3. Minimise contamination of materials, equipment and instruments by aerosols and splatter. PC4. Identify infection risks and implement an appropriate response within own role and responsibility. PC5. Document and report activities and tasks that put patients and/or other workers at risk. PC6. Respond appropriately to situations that pose an infection risk in accordance with the policies and procedures of the organization. PC7. Follow procedures for risk control and risk containment for specific risks PC8. Follow protocols for care following exposure to blood or other body fluids as required. PC9. Place appropriate signs when and where appropriate PC10. Remove spills in accordance with the policies and procedures of the organization. PC11. Maintain hand hygiene by washing hands before and after patient contact and/or after any activity likely to cause contamination. PC12. Follow hand washing procedures PC13. Implement hand care procedures PC14. Cover cuts and abrasions with water-proof dressings and change as necessary. PC15. Wear personal protective clothing and equipment that complies with Indian Standards, and is appropriate for the intended use. PC16. Change protective clothing and gowns/aprons daily, more frequently if soiled 		









National Occupational Standards

HSS/ N 9610:

	 and where appropriate, after each patient contact PC17. Demarcate and maintain clean and contaminated zones in all aspects of health care work PC18. Confine records, materials and medicaments to a well-designated clean zone PC19. Confine contaminated instruments and equipment to a well-designated contaminated zone PC20. Wear appropriate personal protective clothing and equipment in accordance with occupational health and safety policies and procedures when handling waste PC21. Separate waste at the point where it has been generated and dispose of into waste containers that are colour coded and identified PC22. Store clinical or related waste in an area that is accessible only to authorised persons PC23. Handle, package, label, store, transport and dispose of waste appropriately to minimise potential for contact with the waste and to reduce the risk to the
	 environment from accidental release PC24. Dispose of waste safely in accordance with policies and procedures of the organisation and legislative requirements PC25. Wear personal protective clothing and equipment during cleaning procedures PC26. Remove all dust, dirt and physical debris from work surfaces PC27. Clean all work surfaces with a neutral detergent and warm water solution before and after each session or when visibly soiled PC28. Decontaminate equipment requiring special processing in accordance with quality management systems to ensure full compliance with cleaning, disinfection and sterilisation protocols PC29. Dry all work surfaces before and after use PC30. Replace surface covers where applicable PC31. Maintain and store cleaning equipment
Knowledge and Underst	canding (K)
A. Organisational Context (Knowledge of the Healthcare provider/ Organisation and its processes)	 The user/individual on the job needs to know and understand: KA1. The organisation's infection control policies and procedures KA2. Organisation requirements relating to immunisation, where applicable KA3. Standard precautions KA4. Good personal hygiene practice including hand care
B. Technical Knowledge	 The user/individual on the job needs to know and understand: KB1. Additional precautions KB2. Aspects of infectious diseases including: opportunistic organisms pathogens KB3. Basic microbiology including: bacteria and bacterial spores fungi viruses









National Occupational Standards

HSS/ N 9610:

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	K	B4. How to clean and sterile techniques	
	K	B5. The path of disease transmission:	
		 paths of transmission including direct contact and penetrating injuries 	
		- risk of acquisition	
		- sources of infecting microorganisms including persons who are carriers, in	
		the incubation phase of the disease or those who are acutely ill	
	к	B6. Effective hand hygiene:	
		- procedures for routine hand wash	
		- procedures for surgical hand wash	
		- when hands must be washed	
	K	B7. Good personal hygiene practice including hand care	
		B8. Identification and management of infectious risks in the workplace	
	K		
		- guidelines for glove use	
	-	- guidelines for wearing gowns and waterproof aprons	
	A.	- guidelines for wearing masks as required	
		- guidelines for wearing protective glasses	
	KI	310. Susceptible hosts including persons who are immune suppressed, have	
		chronic diseases such as diabetes and the very young or very old	
	KI	B11. Surface cleaning:	
		- cleaning procedures at the start and end of the day	
	3	-managing a blood or body fluid spill	
		- routine surface cleaning	
	KI	B12. Sharps handling and disposal techniques	
	KI	B13. The following:	
		- Follow infection control guidelines	
		- Identify and respond to infection risks	
		- Maintain personal hygiene	
		- Use personal protective equipment	
		- Limit contamination	
		- Handle, package, label, store transport and dispose of clinical and other	
	24	waste	
		- Clean environmental surfaces	
	Skills (S)		
	A. Core Skills/ W	/riting Skills	
		The user/ individual on the job needs to know and understand how to:	
	SA	A1. Consistently apply hand washing, personal hygiene and personal protection	
		protocols	
	SA	A2. Consistently apply clean and sterile techniques	
		A3. Consistently apply protocols to limit contamination	
		Reading Skills	
	Th	e user/individual on the job needs to know and understand how to:	
	S/	A4. Follow instructions as specified in the protocols	









National Occupational Standards

HSS/ N 9610:

	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA5. Listen patiently
	SA6. Provide feedback (verbal and non-verbal) to encourage smooth flow of
	information
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to:
	CD4 Taba into account any arturities to address use to minimize the
	SB1. Take into account opportunities to address waste minimisation, environmental responsibility and sustainable practice issues
	SB2. Apply additional precautions when standard precautions are not sufficient
	Plan and Organise
	The user/individual on the job_needs to:
	A BEACH AND A REAL AND A
	SB3. Consistently ensure instruments used for invasive procedures are sterile at
	time of use (where appropriate)
	SB4. Consistently follow the procedure for washing and drying hands
	SB5. Consistently limit contamination SB6. Consistently maintain clean surfaces and manage blood and body fluid spills
	Customer Centricity
	The user/individual on the job needs to know and understand how to:
	SB7. Be a good listener and be sensitive to patient
	SB8. Avoid unwanted and unnecessary communication with patients
	SB9. Maintain eye contact and non-verbal communication
	Problem Solving
	The user/individual on the job needs to know and understand how to:
	SB10. Communicate only facts and not opinions
	SB11. Give feedback when required Analytical Thinking
	The user/individual on the job needs to know and understand how to:
	SB12. Coordinate required processes effectively
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB13. Apply, analyse, and evaluate the information gathered from observation,
	experience, reasoning, or communication, as a guide to belief and action
	SB14. Take into account opportunities to address waste minimisation, environmental responsibility and sustainable practice issues



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HSS/ N 96110

Follow infection control policies and procedure

NOS Version Control

NOS Code	HSS/ N 9610	HSS/ N 9610						
Credits (NSQF)	TBD	Version number	1.0					
Industry	Health	Drafted on	12/05/13					
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	19/11/15					
		Next review date	19/11/17					





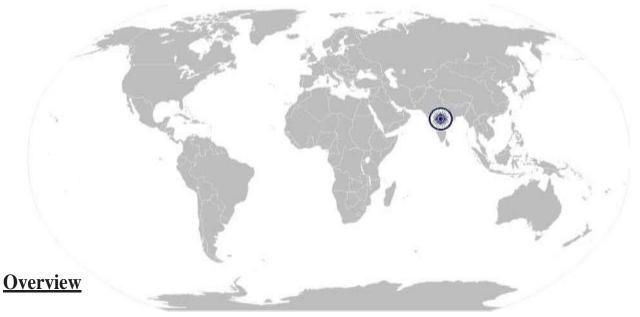






Monitor and assure quality

National Occupational Standards



This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health professional to comply with infection control policies and procedures.





National Occupational Standards



N·S·D·C National Skill Development Corporation

HSS/ N 9611:

Monitor and assure quality

Unit Code	HSS/ N 9611
Unit Title (Task)	Monitor and assure quality
Description	This OS unit is about assuring quality in all procedures. This unit applies to all Allied Health professionals.
Scope	 This unit/task covers the following: Monitor, Identify & Solve treatment process/outcome problems, Attend class/read publications to continue industry education, Identify needs and expectations of patient/health care professionals
Performance Criteria (P	C) w.r.t. the Scope
Element	Performance Criteria
 Monitoring and ensuring quality process 	 To be competent, the user/individual on the job must be able to: PC1. Conduct appropriate research and analysis PC2. Evaluate potential solutions thoroughly PC3. Participate in education programs which include current techniques, technology and trends pertaining to the radiology industry PC4. Read medical publications related to quality consistently and thoroughly PC5. Report any identified breaches in health, safety, and security procedures to the designated person PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority PC7. Promptly and accurately report any hazards that he/she is not allowed to deal with to the relevant person and warn other people who may be affected PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person PC10. Complete any health and safety records legibly and accurately
Knowledge and Unders	tanding (K)
A. Organisational Context	The user/individual on the job needs to know and understand:
(Knowledge of the Healthcare	KA1. Basic requirements of the health and safety and other legislations and regulations that apply to the organisation
provider/ Organisation and its processes)	 KA2. Person(s) responsible for health, safety, and security in the organisation KA3. Relevant up-to-date information on health, safety, and security that applies to the organisation
	KA4. Organisation's emergency procedures and responsibilities for handling hazardous situations





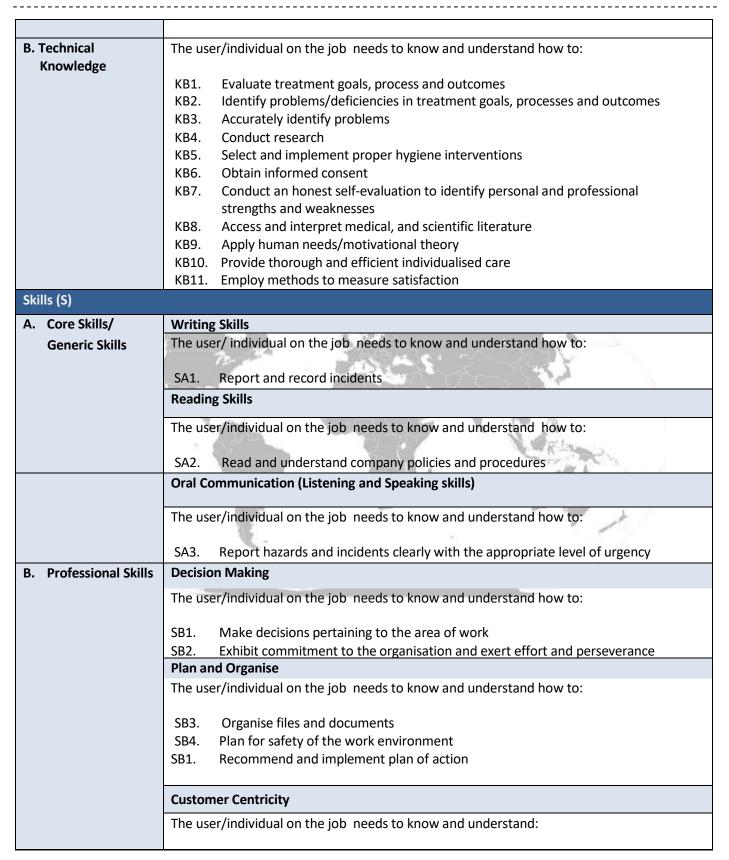
National Occupational Standards

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Monitor and assure quality









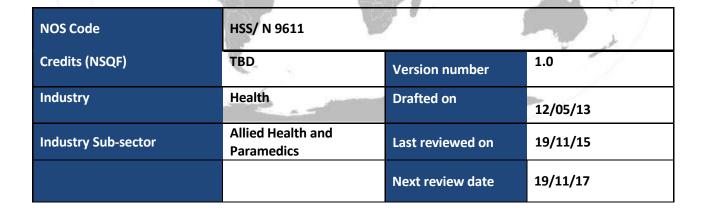


National Occupational Standards Monitor and assure quality

HSS/ N 9611:

NOS Version Control

SB2. How to make exceptional effort to meet patient needs and resolve conflict to patient satisfaction
Problem Solving
The user/individual on the job needs to know and understand how to:
SB3. Identify hazards and suggest effective solutions to identified problems
Analytical Thinking
The user/individual on the job needs to know and understand how to:
SB4. Analyse the seriousness of hazards
Critical Thinking
The user/individual on the job needs to know and understand how to:
SB5. Evaluate opportunities to improve health, safety and security
SB6. Show understanding and empathy for others



	Assessment Form (To be filled	by Assessor for Each 1	Trainee)				
<u>Job Role</u>	X Ray Technician	Trainee Name		UID No.	<u>Batch</u>		
Qualification Pack	HSS/ Q 0701	Taining Partner	ļ	Date			
Sector Skill Council	Healthcare	Name of As	ssessor				
Name & Sign	ature of Representative & Stamp of Assessing Body:						
	Skills Practical and N	/iva (80% weightage)					
		Mar	rks Alloted		Marks Awarded	by Assessor	
	Grand Total-1 (Subject Domain)		400				
Gra	and Total-2 (Soft Skills and Comunication)		100				
	Grand Total-(Skills Practical and Viva)		500				
	Passing Marks (80% of Max. Marks)		400		PASS/FAIL		
	Theory (209	6 weightage)					
		Mar	rks Alloted		Marks Awarded	by Assessor	
	Grand Total-1 (Subject Domain)		80				
Gra	and Total-2 (Soft Skills and Comunication)		20				
	Grand Total-(Theory)		100				
	Passing Marks (50% of Max. Marks)	50			PASS/FAIL		
Grai	nd Total-(Skills Practical and Viva + Theory)		600		0		
	Overall Result	Criteria is to pass in individually. If fail cand	-	-	PASS/FAIL		

	Assessment Form (To be filled	by Assessor for Ea	ch Traine	e)				
Job Role	X ray Technician	Trainee Name			UID No.		<u>Batch</u>	
Qualification Pack	HSS/ Q 0701	Taining Partner			<u>Date</u>			
Sector Skill Council		Name o	f Assesso	<u>r</u>				
Name & Sign	ature of Representative & Stamp of Assessing Body:							
	Skills Practical and N	/iva (80% weightag	e)					
			Marks All	oted		Marks A	warded b	y Assessor
	Grand Total-1 (Subject Domain)		400					
Gra	and Total-2 (Soft Skills and Comunication)		100					
	Grand Total-(Skills Practical and Viva)		500					
	Detailed Break Up of Marks			Skills Pra	actical & Viv	va		
	Subject Domain	Pick any 2 NOS	i (2 eleme		ach NOS ea totalling 40		narks) ea	ch of 200
National Occupational	Performance Criteria (PC)	Total Marks (400)	Out Of	Marks Allocation		Marks Awarded by Assessor		Grand Total of
Standards (NOS)			Out Of	Viva	Skills Practical	Viva	Skills Practical	Practical
1. HSS/ N 0711: Comprehend conventional radiological needs of patients	PC1. Explain the subdivisions of anatomy, terms of location and position,fundamental planes, vertebrate structure of man, organisation of the body cells and tissues		50	20	30			
	PC2. Explain the pathology of various systems: cardiovascular system, respiratory system, central nervous system, musculoskeletal system, GIT, GUT and reproductive system		20	40	20			
	PC3. Explain the pathology of radiation injury and malignancies		20	20	0			
	PC4. Understand specific requests of physicians with respect to the scans required	200	20	10	10			
	PC5. Take medical history of the patient and document it as required		30	15	15			
	PC6. Understand and interpret instructions and requirements documented by the physician in the patient's prescription		30	20	10			
	PC7. Determine the radiological diagnostic tests required for the patient based on the physician's prescription and the medical history		30	20	10			
	TOTAL	•	200	145	95	0	0	
2. HSS/ N 0712: Prepare the patient and the room	PC1. Prepare the room, apparatus and instruments for conventional radiological procedures like X-ray, BMD or Mammography		20	10	10			

onventional ological procedure	PC2. Set up the machine for the desired procedure	
0		
	PC3. Position the patient correctly for an x-ray in the following positions:	
	a. Erect	
	b. Sitting	
	c. Supine	
	d. Prone	
	e. Lateral	
	f. Oblique	
	g. Decubitus	
	PC4. Explain relative positions of x-ray tube and patient and the relevant	
	exposure factors related to these	
	PC5. Explain the use of accessories such as Radiographic cones, grid and	
	positioning aids	
	PC6. Explain the anatomic and physiological basis of the procedure to be	
	undertaken	
	PC7. Explain the radiographic appearances of both normal and common	
	abnormal conditions in order to ensure application of the appropriate	
	radiographic technique	
	PC8. Apply modifications in positioning technique for various disabilities and	
	types of subject	
	PC9. Explain the principles of radiation physics detection and measurement	200
		200
	PC10. Explain the biological effects of radiation	
	PC11.Explain the principles of radiation protection:	
	Maximum permissible exposure concept	
	b. Annual dose equivalent limits (ADEL) ALARA concept	
	c. International recommendations and current code of practice for the	
	protection of persons against ionising radiation from medical and	
	dental use	
	PC12.Explain the use of protective materials:	
	a. Lead	
	b. Lead – impregnated substances	
	c. Building materials	
	d. Concept of barriers	
	e. Lead equivalents and variations	
	f. Design of x-ray tubes related to protection.	
	g. Structural shielding design (work-load, use factor, occupancy factor,	
	distance	

10	4	6	
30	5	25	
10	5	5	
10	6	4	
10	5	5	
10	5	5	
15	5	10	
15	7	8	
10	3	7	
10	7	3	
10	6	4	

	PC13. Explain the instruments of radiation protection, use of gonad shield and practical methods for reducing radiation dose to the patient		20	10	10			
	PC14. Ensure protection of self, patients, departmental staff and public from radiation through use of protection instruments and monitoring personnel and the work area		20	10	10			
	TOTAL		200	88	112	0	0	
3. HSS/ N 0713: Operate and oversee operation of conventional radiological	PC1. Describe the construction and operation of general radiographic equipment		20	8	12			
equipment	PC2. Reliably perform all non-contrast plain Radiography, and contrast radiography in special situations		20	15	5			
	PC3. Apply quality control procedures for all radiologic equipment		20	10	10			
	PC4. Control and manipulate parameters associated with exposure and processing to produce a required image of desirable quality		20	15	5			
	PC5. Practice the procedures employed in producing a radiographic image	200	20	10	10			
	PC6. Describe methods of measuring exposure and doses of radiographic beams		10	0	10			
	PC7. Discuss and apply radiation protection principles and codes of practice		30	15	15			
	PC8. Demonstrate an understanding of processing of images in digital form and be familiar with recent advances in imaging		20	5	15			
	PC9. Set up the X-ray machine for the procedure		20	15	5			
	PC10. Carry out routine procedures associated with maintenance of imaging and processing systems		10	4	6			
	PC11. Ensure protection of patients, departmental staff and public from radiation through use of protection instruments and monitoring personnel		10	2	8			
	TOTAL		200	99	101	0	0	
4. HSS/ N 0714: Process X- ray films/ Images	PC1. Explain the principles of conventional radiographic imaging		30	30	0			
	PC2. Apply knowledge of conventional radiographic imaging to the production of radiographs and the assessment of image quality		30	10	20			
	PC3. Understand the construction and operation of image processing equipment		20	10	10			
	PC4. Control and manipulate parameters associated with exposure and processing to produce a required image of desirable quality	200	30	15	15			
	PC5. Perform X-ray film / image processing techniques (including dark room techniques)		40	10	30			
	PC6. Explain and implement the fundamentals, concepts and applications of processing of images in digital form using computer based systems		30	10	20			

	PC7. Carry out quality control for automatic film processing, evaluate and act on results		20	5	15			
	TOTAL		200	90	110	0	0	
document conventional radiological reports	PC1. Correctly identify anatomical features on the radiographs and identity some major pathological and traumatic conditions		60	30	40			
	PC2. Seek the advice of the Radiologist on conditions identified	200	60	40	30			
	PC3. Document the comments and diagnosis of the Radiologist in a report for the patient		60	40	20			
	PC4. Maintaining the patient record		20	5	15			
	TOTAL		200	110	90	0	0	
HSS/ N 9614 : Recognize Healthy body systems	PC1. Correctly use and interpret the medical terminology that describes normal structure, function & location of major body systems		30	10	20			
	PC2. Correctly use and interpret the information that relates to the interrelationship between major components of each body system and other structure	200	40	20	20			
	PC3. Review the factors that contribute to maintain whole body health		60	20	40			
	PC4. Evaluate how relationship between different body systems affect and support healthy functioning		40	10	30			
	PC5. Enhance quality of work by using and sharing information about healthy functioning of the body		30	10	20			
	TOTAL		200	70	130			
7. HSS/ N 9608: Follow radiation safety guidelines	PC1. Confirm sources of radiation and likely type of exposure for all individuals within the work area		20	15	5			
	PC2. Apply appropriate assessment methodology suitable for source, type of exposure, dose, level of risk and the recipients' exposure time		30	20	10			
	PC3. Confirm that all required procedures and associated safety measures are compliant with current and relevant legislation requirements		20	15	5			
	PC4. Determine and assess the appropriateness of the projected radiation dose over a suitable period of time for an individual or key staff and other personnel		30	20	10			
	PC5. Record the results of the assessment accurately and in correct format, referencing any monitoring measurements taken to accepted published values to indicate conformance within accepted safety guidance limits for the procedures undertaken within the work practice	200	20	10	10			

1							-
	PC6. Communicate and provide information, advice and guidance						
	effectively in the appropriate medium to meet the individuals needs and	20	0	10			
	preferences						
	PC7. Report actual and potential risks from radiation, in context, to other						
	healthcare professionals and where appropriate seek assistance and advice	10	5	5			
	PC8. Maintain full, accurate and legible records of information and store in						
	correct location in line with current legislation, guidelines, policies and	10	5	5			
	protocols	10	5	5			
	PC9. Confirm that all required procedures and associated safety measures						
	are current and compliant with relevant legislation	20	5	15			
	PC10. Maintain full, accurate and legible records of information and store in						
	correct location in line with current legislation, guidelines, local policies and	20	10	10			
	protocols	-	_	-			
	TOTAL	200	105	85	0	0	
8. HSS/ N 9610 (Follow	PC1. Preform the standard precautions to prevent the spread of infection in		0				
infection control policies	accordance with organisation requirements	5	0	5			
and procedures)	PC2. Preform the additional precautions when standard precautions alone	5	0	5			
	may not be sufficient to prevent transmission of infection		0	5			
	PC3. Minimise contamination of materials, equipment and instruments by	5	5	0			
	aerosols and splatter			, , , , , , , , , , , , , , , , , , ,			
	PC4. Identify infection risks and implement an appropriate response within	20	10	10			
	own role and responsibility			-			
	PC5. Document and report activities and tasks that put patients and/or	5	0	5			
	other workers at risk						
	PC6. Respond appropriately to situations that pose an infection risk in	5	0	5			
	accordance with the policies and procedures of the organization						
	PC7. Follow procedures for risk control and risk containment for specific risks	10	0	10			
	PC8. Follow protocols for care following exposure to blood or other body						
	fluids as required	10	0	10			
			10	10			
	PC9. Place appropriate signs when and where appropriate	20	10	10			
	PC10. Remove spills in accordance with the policies and procedures of the	5	0	5			
	organization						
	DC11 Maintain hand huriana huwaching hands hafara and after artist		0				
		5	U	5			
		-		-			
	PC12. Follow hand washing procedures		-	-	I		
	PC13. Implement hand care procedures	5	0	5			
	PC14. Cover cuts and abrasions with water-proof dressings and change as	-	-	_	1		
	necessary	5	5	U			
	PC15. Wear personal protective clothing and equipment that complies with	5	0	5		1	
	Indian Standards, and is appropriate for the intended use						
	PC13. Implement hand care procedures PC14. Cover cuts and abrasions with water-proof dressings and change as	5	0	5			

	PC16. Change protective clothing and gowns/aprons daily, more frequently	200	5	0	5			
	if soiled and where appropriate, after each patient contact PC17. Demarcate and maintain clean and contaminated zones in all aspects							
	of health care work							
	PC18. Confine records, materials and medicaments to a well-designated							
	clean zone		20	10	10			
	PC19. Confine contaminated instruments and equipment to a well-							
	designated contaminated zone							
	PC20. Wear appropriate personal protective clothing and equipment in							
	accordance with occupational health and safety policies and procedures		5	0	5			
	when handling waste		-	-	_			
	PC21. Separate waste at the point where it has been generated and dispose		5	0	5			
	of into waste containers that are colour coded and identified							
	PC22. Store clinical or related waste in an area that is accessible only to		5	5	0			
	authorised persons							
	PC23. Handle, package, label, store, transport and dispose of waste		-	0	F			
	appropriately to minimise potential for contact with the waste and to		5	0	5			
	reduce the risk to the environment from accidental release							
	PC24. Dispose of waste safely in accordance with policies and procedures of		5	5	0			
	the organisation and legislative requirements							
	PC25. Wear personal protective clothing and equipment during cleaning		5	0	5			
	procedures							
	PC26. Remove all dust, dirt and physical debris from work surfaces		5	0	5			
	PC27. Clean all work surfaces with a neutral detergent and warm water		5	0	5			
	solution before and after each session or when visibly soiled			0	3			
	PC28. Decontaminate equipment requiring special processing in accordance							
	with quality management systems to ensure full compliance with cleaning,		5	0	5			
	disinfection and sterilisation protocols							
	PC29. Dry all work surfaces before and after use		5	0	5			
	PC30. Replace surface covers where applicable		5	0	5			
	PC31. Maintain and store cleaning equipment		5	5	0			
	TOTAL		200	55	145			
	Grand Total-1 (Subject Domain)		400					
	Soft Skills and Communication	Pick one fie	ld from b	oth parts e	each carryin	g 50 mark	s totalling	100
						Marks Au	arded by	
National Occupational				Marks A	Allocation	Marks Awarded by Assessor		Grand Total of
Standards (NOS)	Performance Criteria (PC) Total Ma	Total Marks (100)	Out Of	Viva	Observation / Role Play	Viva	Skills	Practical
					/ NOIE Pidy		Practical	
Part 1 (Pick one field rando	mly carrying 50 marks)							
1. Attitude								

HSS/N 9603 (Act within the	PC1. Adhere to legislation, protocols and guidelines relevant to one's role					1	
limits of one's competence	and field of practice		5	1	4		
and authority)	PC2. Work within organisational systems and requirements as appropriate					1 1	
	to one's role		5	2	3		
	PC3. Recognise the boundary of one's role and responsibility and seek		10	5	5		
	supervision when situations are beyond one's competence and authority						
	PC4. Maintain competence within one's role and field of practice	50	5	2	3		
	PC5. Use relevant research based protocols and guidelines as evidence to	50	F	2	2		
	inform one's practice		5	2	3		
	PC6. Promote and demonstrate good practice as an individual and as a		5	3	2		
	team member at all times		5	5	Z		
	PC7. Identify and manage potential and actual risks to the quality and safety		10	5	5		
	of practice		10	5	5		
	PC8. Evaluate and reflect on the quality of one's work and make continuing		5	2	3		
	improvements			_	5		
			50	22	28		
	Attitude Total	50					
2. Work Management				_	-		-
HSS/ N 9602 (Ensure	PC1. Maintain adequate supplies of medical and diagnostic supplies		5	5	0		
availability of medical and	PC2. Arrive at actual demand as accurately as possible		5	3	2		1
diagnostic supplies)	PC3. Anticipate future demand based on internal, external and other	25				1	
	contributing factors as accurately as possible	25	10	5	5		
	PC4. Handle situations of stock-outs or unavailability of stocks without		_	_	_		
	compromising health needs of patients/ individuals		5	5	0		
			25	18	7	1 1	
3. Attiquete						•	
HSS/ N 9601 (Collate and	PC1. Respond to gueries and information needs of all individuals		2	2	0		
Communicate Health	PC2. Communicate effectively with all individuals regardless of age, caste,		_		_		
Information)	gender, community or other characteristics		5	0	5		
	PC3. Communicate with individuals at a pace and level fitting their		5	0	5		
	understanding, without using terminology unfamiliar to them		5	0	5		
	PC4. Utilise all training and information at one's disposal to provide relevant	25	5	5	0		
	information to the individual		_		-		
	PC5. Confirm that the needs of the individual have been met		2	2	0		
	PC6. Adhere to guidelines provided by one's organisation or regulatory		2	2	0		
	body relating to confidentiality					├ ───┤	
	PC7. Respect the individual's need for privacy		2	2	0		
-	PC8. Maintain any records required at the end of the interaction		2	2	0		
			25	15	10		
	Work Management Total	50					
Part 2 (Pick one field as per	NOS marked carrying 50 marks)						
1. Team Work (Fvaluate wit	h NOS: HSS/N/0304, 0305, 0306, 0307)						
•							
2. Safety management (Eval	luate with NOS: HSS/N/0301, 0302, 0303, 0409, 9610)						

HSS/ N 9606 (Maintain a	PC1. Identify individual responsibilities in relation to maintaining workplace		6	2	4		
safe, healthy, and secure	health safety and security requirements		0	2	4		
working environment)			4	0	4		
	PC2. Comply with health, safety and security procedures for the workplace			Ű			
	PC3. Report any identified breaches in health, safety, and security		4	3	1		
	procedures to the designated person				-		
	PC4. Identify potential hazards and breaches of safe work practices		6	4	2		
	PC5. Correct any hazards that individual can deal with safely, competently		C	4	2		
	and within the limits of authority	50	6	4	2		
	PC6. Promptly and accurately report the hazards that individual is not						
	allowed to deal with, to the relevant person and warn other people who		6	4	2		
	may get affected						
	PC7. Follow the organisation's emergency procedures promptly, calmly, and		6	2	4		
	efficiently		0	2	4		
	PC8. Identify and recommend opportunities for improving health, safety,		6	4	2		
	and security to the designated person			-	2		
	PC9. Complete any health and safety records legibly and accurately		6	2	4		
			50	25	25		
3. Waste Management (Ev	aluate with NOS: HSS/N/5105, 5108, 5114, 5115)						
HSS/ N 9609 (Follow							
biomedical waste disposal	PC1. Follow the appropriate procedures, policies and protocols for the		6	2	4		
protocols)	method of collection and containment level according to the waste type		Ŭ	-	·		
,	PC2. Apply appropriate health and safety measures and standard						
	precautions for infection prevention and control and personal protective		8	4	4		
	equipment relevant to the type and category of waste		_				
	PC3. Segregate the waste material from work areas in line with current						
	legislation and organisational requirements		4	0	4		
	PC4. Segregation should happen at source with proper containment, by			_			
	using different colour coded bins for different categories of waste		8	4	4		
	PC5. Check the accuracy of the labelling that identifies the type and content						
	of waste	50	4	2	2		
	PC6. Confirm suitability of containers for any required course of action				0		
	appropriate to the type of waste disposal		4	4	0		
	PC7. Check the waste has undergone the required processes to make it safe		4	4	0		
	for transport and disposal		4	4	0		
	PC8. Transport the waste to the disposal site, taking into consideration its		4	4	0		
	associated risks		4	4	0		
	PC9. Report and deal with spillages and contamination in accordance with		4	4	0		
	current legislation and procedures		4	4	U		
	PC10. Maintain full, accurate and legible records of information and store in						
	correct location in line with current legislation, guidelines, local policies and		4	4	0		
	protocols						
			50	32	18		
HSS/ N 9611: Monitor and	PC1. Conduct appropriate research and analysis		6	2	4		
assure quality	PC2. Evaluate potential solutions thoroughly		8	4	4		

Grand Total-2 (Soft Skills and Comunication)		100				
	L	50	32	18		
PC10. Complete any health and safety records legibly and accurately		4	4	0		
PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person		4	4	0		
PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently		4	4	0		
PC7. Promptly and accurately report any hazards that he/she is not allowed to deal with to the relevant person and warn other people who may be affected		4	4	0		
PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority	50	4	4	0		
PC5. Report any identified breaches in health, safety, and security procedures to the designated person		4	2	2		
PC4. Read Dental hygiene, dental and medical publications related to quality consistently and thoroughly		8	4	4		
PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry		4	0	4		

	Assessment Form (To be filled by A	Assessor for Each Tra	ainee)		
Job Role	X ray Technician	Trainee Name		Batch	
Qualification Pack	HSS/ Q 0701	Taining Partner			
Sector Skill Council		Name o	f Assessor		
Name & Signa	ature of Representative & Stamp of Assessing Body:				
	Theory (20% we	ightage)			
		Marks	Alloted	Marks Awarded	oy Assessor
	Grand Total-1 (Subject Domain)		80		
Gra	nd Total-2 (Soft Skills and Comunication)		20		
	Grand Total-(Theory)	1	100		
	Detailed Break Up of Marks		Theory	y	
	Subject Domain	Pic	k each NOS Compuls	sorily totalling 80	
National Occupational Standards (NOS)	Performance Criteria (PC)	Total Marks (80)	Marks Allocation	Marks Awarded by Assessor	Grand Total o
		Total Marks (00)	Theory	Theory	Theory
1. HSS/ N 0711: Comprehend conventional radiological needs of patients	 PC1. Explain the subdivisions of anatomy, terms of location and position, fundamental planes, vertebrate structure of man, organisation of the body cells and tissues PC2. Explain the pathology of various systems: cardiovascular system, respiratory system, central nervous system, musculoskeletal system, GIT, PC3. Explain the pathology of radiation injury and malignancies PC4. Understand specific requests of physicians with respect to the scans required PC5. Take medical history of the patient and document it as required PC6. Understand and interpret instructions and requirements documented by the physician in the patient's prescription PC7. Determine the radiological diagnostic tests required for the patient based on the physician's prescription and the medical history 		5		
2.HSS/ N 0712: Prepare the patient and the room for the procedure	PC1. Prepare the room, apparatus and instruments for conventional radiological procedures like X-ray, BMD or Mammography PC2. Set up the machine for the desired procedure	_	3		

PC3. Position the patient correctly for an x-ray in the following positions:			
a. Erect			ļ
b. Sitting			
c. Supine			
d. Prone			
e. Lateral			
f. Oblique			
g. Decubitus			
			l
PC4. Explain relative positions of x-ray tube and patient and the relevant			l
exposure factors related to these			l
·			l
PC5. Explain the use of accessories such as Radiographic cones, grid and			l
positioning aids			
PC6. Explain the anatomic and physiological basis of the procedure to be			1
undertaken			
PC7. Explain the radiographic appearances of both normal and common			
abnormal conditions in order to ensure application of the appropriate			
radiographic technique			
PC8. Apply modifications in positioning technique for various disabilities and			I
types of subject	5		
			I
PC9. Explain the principles of radiation physics detection and measurement			
PC10. Explain the biological effects of radiation			
			l
PC11.Explain the principles of radiation protection:			
Maximum permissible exposure concept			
b. Annual dose equivalent limits (ADEL) ALARA concept			
c. International recommendations and current code of practice for the			
protection of persons against ionising radiation from medical and			
dental use			
			I
PC12.Explain the use of protective materials:			
a. Lead			
b. Lead – impregnated substances			
c. Building materials			I
d. Concept of barriers			l
e. Lead equivalents and variations			
f. Design of x-ray tubes related to protection.			Í
g. Structural shielding design (work-load, use factor, occupancy factor,			I
distance			I
DC12 Evaluin the instruments of radiation protection was of gans disting			
PC13. Explain the instruments of radiation protection, use of gonad shield			Í
and practical methods for reducing radiation dose to the patient			

			_	_	_
	PC14. Ensure protection of self, patients, departmental staff and public				
	from radiation through use of protection instruments and monitoring				
	personnel and the work area				
	Total		5		
3. HSS/ N 0713: Operate	PC1. Describe the construction and operation of general radiographic				
and oversee operation of	equipment				
conventional radiological	equipment				
equipment	DC2. Deliebly anti-are all and contract along Dedicareaby, and contract				
equipment	PC2. Reliably perform all non-contrast plain Radiography, and contrast				
	radiography in special situations				
	PC3. Apply quality control procedures for all radiologic equipment				
	PC4. Control and manipulate parameters associated with exposure and				
	processing to produce a required image of desirable quality				
	PC5. Practice the procedures employed in producing a radiographic image				
	ļ				
	PC6. Describe methods of measuring exposure and doses of radiographic	-			
	beams	5			
	PC7. Discuss and apply radiation protection principles and codes of practice				
	PC8. Demonstrate an understanding of processing of images in digital form				
	and be familiar with recent advances in imaging				
	PC9. Set up the X-ray machine for the procedure				
	PC10. Carry out routine procedures associated with maintenance of imaging				
	and processing systems				
	PC11. Ensure protection of patients, departmental staff and public from				
	radiation through use of protection instruments and monitoring personnel				
	and the work area				
	Total		5		
4. HSS/ N 0714: Process X-	PC1. Explain the principles of conventional radiographic imaging				
ray films/ Images	DC2. Annual second along of convertices of the second in the second second second				
	PC2. Apply knowledge of conventional radiographic imaging to the				
	production of radiographs and the assessment of image quality				
	PC3. Understand the construction and operation of image processing				
	PC3. Understand the construction and operation of image processing equipment				
	equipment				
		5			

	PC5. Perform X-ray film / image processing techniques (including dark room techniques)			
	PC6. Explain and implement the fundamentals, concepts and applications of processing of images in digital form using computer based systems			
	PC7. Carry out quality control for automatic film processing, evaluate and act on results			
	Total		5	
5.HSS/ N 0715: Prepare and document conventional radiological reports	PC1. Correctly identify anatomical features on the radiographs and identity some major pathological and traumatic conditions			
	PC2. Seek the advice of the Radiologist on conditions identified	5		
	PC3. Document the comments and diagnosis of the Radiologist in a report for the patient			
	PC4. Maintaining the patient record			
	Total		5	
HSS/ N 9614 : Recognize Healthy body systems	PC1. Correctly use and interpret the medical terminology that describes normal structure, function & location of major body PC2. Correctly use and interpret the information that relates to the interrelationship between major components of each body system PC3. Review the factors that contribute to maintain whole body health			
	PC4. Evaluate how relationship between different body systems affect and support healthy functioning	5		
	PC5. Enhance quality of work by using and sharing information about healthy functioning of the body			
	Total		5	
7. HSS/ N 9608: Follow radiation safety guidelines	PC1. Confirm sources of radiation and likely type of exposure for all individuals within the work area			
	PC2. Apply appropriate assessment methodology suitable for source, type			
	PC3. Confirm that all required procedures and associated safety measures are compliant with current and relevant legislation requirements			
	PC4. Determine and assess the appropriateness of the projected radiation dose over a suitable period of time for an individual or key staff and other personnel			
	PC5. Record the results of the assessment accurately and in correct format, referencing any monitoring measurements taken to accepted published values to indicate conformance within accepted safety guidance limits for			
	the procedures undertaken within the work practice	5		

I	PC6. Communicate and provide information, advice and guidance			1	I
	effectively in the appropriate medium to meet the individuals needs and				
	preferences				
	PC7. Report actual and potential risks from radiation, in context, to other				
	healthcare professionals and where appropriate seek assistance and advice				
	PC8. Maintain full, accurate and legible records of information and store in				
	correct location in line with current legislation, guidelines, policies and protocols				
	PC9. Confirm that all required procedures and associated safety measures are current and compliant with relevant legislation				
	PC10. Maintain full, accurate and legible records of information and store in				
	correct location in line with current legislation, guidelines, local policies and protocols				
	Total		5		
8. HSS/ N 9610 (Follow infection control policies	PC1. Preform the standard precautions to prevent the spread of infection in accordance with organisation requirements				
and procedures)	PC2. Preform the additional precautions when standard precautions alone				
	may not be sufficient to prevent transmission of infection PC3. Minimise contamination of materials, equipment and instruments by				
	aerosols and splatter				
	PC4. Identify infection risks and implement an appropriate response within own role and responsibility				
	PC5. Document and report activities and tasks that put patients and/or other workers at risk				
	PC6. Respond appropriately to situations that pose an infection risk in accordance with the policies and procedures of the organization				
	PC7. Follow procedures for risk control and risk containment for specific risks				
	PC8. Follow protocols for care following exposure to blood or other body fluids as required				
	PC9. Place appropriate signs when and where appropriate				
	PC10. Remove spills in accordance with the policies and procedures of the organization				
	PC11. Maintain hand hygiene by washing hands before and after patient contact and/or after any activity likely to cause contamination				
	PC12. Follow hand washing procedures				
	PC13. Implement hand care procedures				
	PC14. Cover cuts and abrasions with water-proof dressings and change as necessary				
	PC15. Wear personal protective clothing and equipment that complies with Indian Standards, and is appropriate for the intended use				
	PC16. Change protective clothing and gowns/aprons daily, more frequently if soiled and where appropriate, after each patient contact	45			

	PC17. Demarcate and maintain clean and contaminated zones in all aspects				1
	of health care work				
	PC18. Confine records, materials and medicaments to a well-designated				
	clean zone				
	PC19. Confine contaminated instruments and equipment to a well-				
	designated contaminated zone				
	PC20. Wear appropriate personal protective clothing and equipment in				
	accordance with occupational health and safety policies and procedures				
	when handling waste				
	PC21. Separate waste at the point where it has been generated and dispose				
	of into waste containers that are colour coded and identified				
	PC22. Store clinical or related waste in an area that is accessible only to				
	authorised persons				
	PC23. Handle, package, label, store, transport and dispose of waste				
	appropriately to minimise potential for contact with the waste and to				
	reduce the risk to the environment from accidental release				
	PC24. Dispose of waste safely in accordance with policies and procedures of				
	the organisation and legislative requirements				
	PC25. Wear personal protective clothing and equipment during cleaning				
	procedures				
	PC26. Remove all dust, dirt and physical debris from work surfaces				
	PC27. Clean all work surfaces with a neutral detergent and warm water				
	solution before and after each session or when visibly soiled				
	PC28. Decontaminate equipment requiring special processing in accordance				
	with quality management systems to ensure full compliance with cleaning,				
	disinfection and sterilisation protocols				
	PC29. Dry all work surfaces before and after use				
	PC30. Replace surface covers where applicable				
	PC31. Maintain and store cleaning equipment				
	Total		45		
	Grand Total-1 (Subject Domain)	80	80		
	Soft Skills and Communication	Select ea	ch part each carryin	g 10 marks totalling	20
				Marks Awarded by	
National Occupational			Marks Allocation	Assessor	Grand Total of
Standards (NOS)	Performance Criteria (PC)	Total Marks (20)			Theory
			Theory	Theory	,
Part 1 (Pick one field randor	nly carrying 50 marks)				
1. Attitude					
HSS/ N 9603 (Act within the	PC1. Adhere to legislation, protocols and guidelines relevant to one's role				
limits of one's competence	and field of practice				

to one's role PC3. Recognise the boundary of and responsibility and seeks supervision when structures are beyond one's concentence and authority. 3 3 PC3. Recognise the boundary of and seeks and individual and as a team mether at all times. 3 3 Recomments. 76.6. Promote and demonstrate good practice are an individual and as a team mether at all times. 3 3 Voit Management supervision of the quality of one's work and make continuing improvements. 3 3 Voit Management supervision of the quality of one's work and make continuing improvements. 3 4 Voit Management supervision of the quality of one's work and make continuing improvements. 4 4 Voit Management supervision of the quality of one's work and make continuing improvements. 4 4 PC1. Minitian adequate supplies of medical and diagnostic supplies of medical and supplies of the quality of stocks without commonsing health needs of patients/ individuals 4 4 PC2. Arrive at actual demand as accurately as possible PC1. Handle situation of stock outs or inavailability of stocks without commonsing health needs of patients/ individuals 4 4 PC2. Arrive at actual demand as accurately as goossible PC3. Arrive at actual demand as a curately as goossible PC3. Arrive at actual demand as a curately as goossible PC3. Arrive at actual demand as a curately as goossible PC3. Arrive at actual demand as a curately as goossible PC3. Arrive at actual demand as a						I
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supervision when situations are beyond one's competence and authority. PG. Maintain competence within one's role and field of practice 3 3 3 PG. Diverse and emonstrate good practice as an individual and as a taxm member at all times. PG. Protone and demonstrate good practice as an individual and as a taxm member at all times. 3		to one's role				
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improvements 3 Total 3 Work Management 3 SS/N 9602 (Ensure valiability of medical and agnostic supplies) PC1. Maintain adequate supplies of medical and diagnostic supplies PC2. Arrive at actual demand as accurately as possible PC3. Arrive at actual demand based on internal, external and other PC4. Handle situations of stock-outs or unavailability of stocks without compromising health needs of patients/ individuals 4 4 Actiquete Total 4 SS/N 9602 (Collate and ommunicate Health formation) PC1. Respond to queries and information needs of all individuals pC2. Communicate effectively with all individuals regardless of age, caste, gender, community or other characteristics 3 3 PC3. Communicate With individuals regardless of age, caste, gender, community or other characteristics 3 3 PC4. Utilise all training and information at one's disposal to provide relevant information to the individual PC5. Communicate with individuals regardless or age, caste, gender, community or other characteristics 3 3 PC4. Utilise all training and information at one's disposal to provide relevant information at the individual have been met PC5. Adhere to guidelines provided by one's organisation or regulatory body relating to confidentiality PC7. Respect the individual's need for privacy PC8. Maintain an vecords required at the end of the interaction Total 3 0 Team Work (Evaluate with NOS: HS5/N/0304, 0305, 0306, 0307) 3 0 0 SAfv Bodge (Maintain a) PC1. Identify individuals reprosh		of practice				
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	HSS/ N 9606 (Maintain a	PC1. Identify individual responsibilities in relation to maintaining workplace				
	safe, healthy, and secure					

working environment)					
	PC2. Comply with health, safety and security procedures for the workplace				
	PC3. Report any identified breaches in health, safety, and security procedures to the designated person				
	PC4. Identify potential hazards and breaches of safe work practices				
	PC5. Correct any hazards that individual can deal with safely, competently	3	3		
	and within the limits of authority	3	3		
	PC6. Promptly and accurately report the hazards that individual is not				
	allowed to deal with, to the relevant person and warn other people who				
	may get affected PC7. Follow the organisation's emergency procedures promptly, calmly, and				
	efficiently				
	PC8. Identify and recommend opportunities for improving health, safety,				
	and security to the designated person				
	PC9. Complete any health and safety records legibly and accurately				
	Total		3		
<u> </u>	raluate with NOS: HSS/N/5105, 5108, 5114, 5115)				
HSS/ N 9609 (Follow					
piomedical waste disposal	PC1. Follow the appropriate procedures, policies and protocols for the				
protocols)	method of collection and containment level according to the waste type				
	PC2. Apply appropriate health and safety measures and standard				
	precautions for infection prevention and control and personal protective				
	equipment relevant to the type and category of waste				
	PC3. Segregate the waste material from work areas in line with current				
	legislation and organisational requirements				
	PC4. Segregation should happen at source with proper containment, by using different colour coded bins for different categories of waste				
	PC5. Check the accuracy of the labelling that identifies the type and content				
	of waste	5	5		
	PC6. Confirm suitability of containers for any required course of action	-	Ū.		
	appropriate to the type of waste disposal				
	PC7. Check the waste has undergone the required processes to make it safe				
	for transport and disposal				
	PC8. Transport the waste to the disposal site, taking into consideration its				
	associated risks				
	PC9. Report and deal with spillages and contamination in accordance with				
	current legislation and procedures				
	PC10. Maintain full, accurate and legible records of information and store in				
	correct location in line with current legislation, guidelines, local policies and				
	protocols				
	Total		5		
4. Quality Assurance	DC1 Conduct appropriate records and analysis				
HSS/ N 9611: Monitor and	PC1. Conduct appropriate research and analysis				
assure quality	PC2. Evaluate potential solutions thoroughly			1 1	

Grand Total-2 (Soft Skills and Comunication)	20			
Part 2 Total	10		2	
	PC10. Complete any health and safety records legibly and accurately			
	PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person			
	PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently			
	PC7. Promptly and accurately report any hazards that he/she is not allowed to deal with to the relevant person and warn other people who may be affected			
	PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority	2	2	
	PC5. Report any identified breaches in health, safety, and security procedures to the designated person			
	PC4. Read Dental hygiene, dental and medical publications related to quality consistently and thoroughly			
	PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry			