

QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR ALLIED 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- Dialysis Technician

SECTOR: HEALTHCARE

SUB-SECTOR: Allied Healthcare & Paramedics

OCCUPATION: Dialysis Technician

REFERENCE ID: HSS/Q2701

ALIGNED TO: NCO-2004/3211.5

Dialysis Technician: also referred to as renal dialysis technician, hemodialysis technician, or nephrology technician.

Brief Job Description: Dialysis Technician operates machines and perform dialysis on patients with acute or chronic kidney failure. They work under the supervision of physicians and nurses, primarily in hospitals, clinics, dialysis centers/facilities, some nursing homes, assisted living facilities, and long term care facilities. They are responsible for the operation, cleaning, and sterilisation of the dialysis machines. Dialysis Technicians give patients important medical, technical, social and emotional support and also provide vital information on patient conditions to nurses, doctors, and other medical staff.

Personal Attributes: This job requires the individual to work in collaboration with Doctors ,nurses and other healthcare providers. They must have good communication skills to accurately report and document findings/results of their patients. They should be sensitive to the needs of the patient and be able to establish a good rapport with them.particularly related to cardio vascular system.

Job Details	Qualifications Pack Code	HSS/Q2701		
	Job Role	Dialysis Technician		
	Credits (NSQF)	TBD	Version number	1.0
	Sector	Health	Drafted on	12/05/2013
	Sub-sector	Allied Health & Paramedics	Last reviewed on	22/05/2013
	Occupation	Dialysis Technician	Next review date	10/12/2016
	NSQC Clearance on	18/05/2015		

Job Role	Dialysis Technician
Role Description	Operate machines and perform dialysis on patients with acute or chronic kidney failure. They are responsible for the operation, cleaning, and sterilisation of the dialysis machines.
NSQF level	4
Minimum Educational Qualifications*	Class XII
Maximum Educational Qualifications*	Not Applicable
Training (Suggested but not mandatory)	Not Applicable
Minimum Job Entry Age	18 years
Experience	Not Applicable
Applicable National Occupational Standards (NOS)	<p>Compulsory:</p> <ol style="list-style-type: none"> 1. HSS/N2701: Collect and assess the patient's chart and vitals 2. HSS/N2702: Manage dialysis machine set up and assemble the extracorporeal circuit 3. HSS/N2703: Prepare and position the patient for treatment 4. HSS/N2704: Connect patient to the dialysis machine 5. HSS/N2705: Monitor technical/ clinical vitals during the treatment 6. HSS/N2706: Unhook patient from the machine 7. HSS/N2707: Record the treatment 8. HSS/N2708: Conduct pre and post dialysis evaluation 9. HSS/N2709: Maintain and disinfect the delivery system 10. HSS/N2710: Evaluate and prepare the access site for cannulation 11. HSS/N2711: Respond to dialysis related emergencies in patient

	<p>and equipment</p> <p>12. HSS/N2712: Reprocess dialysers</p> <p>13. HSS/N2713: Operate and maintain water treatment plant</p> <p>14. HSS/N9603: Act within the limits of your competence and authority</p> <p>15. HSS/N9604: Work effectively with others</p> <p>16. HSS/N9606: Maintain a safe, healthy and secure environment</p> <p>17. HSS/N9609: Follow biomedical waste disposal protocols</p> <p>18. HSS/N9610: Follow infection control policies and procedures</p> <p>19. HSS.N9611: Monitor and assure quality</p> <p>Optional N.A</p>
<p>Performance Criteria</p>	<p>As described in the relevant OS units</p>

Definitions

Keywords /Terms	Description
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.
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.
Dialysis Technician	Dialysis Technicians operate machines that remove waste and excess fluids from the blood of patients whose kidneys can no longer carry out those functions.
Function	Function is an activity necessary for achieving the 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 organisation.
Knowledge and Understanding	Knowledge and Understanding are statements that together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
National Occupational Standards (NOS)	NOS are Occupational Standards that 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.
Organisational Context	Organisational Context includes the way the organisation 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.

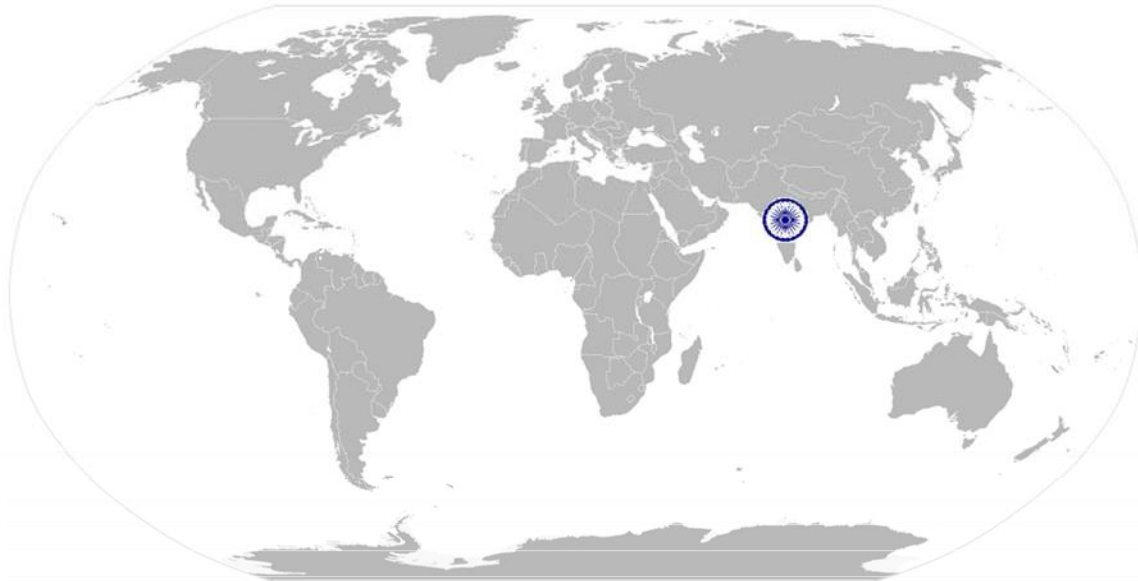
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.
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Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent should be able to do.
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
Keywords /Terms	Description
IV	Intra venous
NOS	National Occupational Standard(s)
NVEQF	National Vocational Education Qualifications Framework
NSQF	National Skills Qualifications Framework
OS	Occupational Standards
QP	Qualification Pack
SPO 2	Saturation Potential of Oxygen

HSS/N2701

Collect and assess the patient's chart and vitals

National Occupational Standard



Overview

This OS unit is about checking the patient's chart and vital signs prior to starting the treatment of dialysis.

HSS/N2701

Collect and assess the patient's chart and vitals

National Occupational Standard

Unit Code	HSS/N2701
Unit Title	Collect and assess the patient's chart and vitals
Description	This OS unit is about checking the patient's chart and vital signs prior to start the treatment of dialysis.
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Reading and understanding the values mentioned in the report of the patient ,Checking and documenting the vital parameters such as non-invasive blood pressure, body temperature, body weight, oxygen saturation of blood (SPO2), breathing rate, ECG etc. as appropriate, of the patient before starting the dialysis <p>Interacting with : Patients suffering from acute or chronic renal failure with or without other complications People within same Hospital/Clinic/ health care unit Renal specialists, nurses, other technicians and staff</p>
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Read and understand the patients' reports</p> <p>PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate</p> <p>PC3. Recognise the levels of vital parameters under which dialysis can be performed safely</p> <p>PC4. Identify and manage potential and actual risks to the quality and safety of work</p> <p>PC5. Maintain competence within one's role and field of practice</p> <p>PC6. Evaluate and reflect on the quality of one's work and make continuing improvements</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. The relevant hierarchy of doctors, nurses and other staff of the renal care team</p> <p>KA2. The procedure that should be followed while communicating and documenting the findings prior to the dialysis process</p> <p>KA3. Medical procedures and knowledge of using the relevant medical equipment</p> <p>KA4. The procedure for accessing training, learning and development needs for oneself and/or others within one's organisation</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. The significance of the medical reports describing the patients' condition</p> <p>KB2. The values of the vital parameters under which dialysis can be safely performed</p> <p>KB3. The method of measuring vital parameters accurately</p> <p>KB4. The sources of information that can be accessed to maintain an awareness of research and development in one's area of work</p> <p>KB5. The risks to quality and safety arising from:</p> <ol style="list-style-type: none"> Lack of knowledge of the blood parameters and other test results Not keeping up to date with best practices

HSS/N2701

Collect and assess the patient’s chart and vitals

	<p>c. Poor communication d. Insufficient support e. Lack of resources</p> <p>KB6. The importance of reporting and minimising risk KB7. The right person to be contacted in case patients’ chart / vitals are not within the prescribed limits for undertaking dialysis</p>
Skills (S)	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p>
	<p>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. Document and report findings related to patients’ condition SA3. Prepare status and progress reports SA4. Record daily activities that are being performed SA5. Document the readings/measurements as per the protocol</p>
	<p>Reading Skills</p>
<p>The user/individual on the job needs to know and understand how to: SA6. Read and understand medical reports SA7. Keep abreast with the latest knowledge by reading most recommended values of blood parameters and other vitals with reference to the functioning of kidneys</p>	
	<p>Oral Communication (Listening and Speaking skills)</p>
<p>The user/individual on the job needs to know and understand how to: SA8. Discuss medical reports and patients’ condition with co-workers SA9. Interact with patient appropriately in order to understand the nature of the complaint or request SA10. Keep patient informed about procedures SA11. Avoid using jargon, slang or acronyms when communicating with a patient SA12. Promote and demonstrate good communication practice as an individual and as a team member at all times</p>	
<p>B. Professional Skills</p>	<p>Decision Making</p>
	<p>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</p>
	<p>Plan and Organize</p>
	<p>The user/individual on the job needs to know and understand: SB2. How to plan and organise activities that are assigned</p>
	<p>Customer Centricity</p>
<p>The user/individual on the job needs to know and understand how to: SB3. Communicate effectively with patient and their family, physicians, and other members of the team SB4. Listen in a responsive and empathetic manner to establish rapport SB5. Show sensitivity while checking vitals, towards the pain /discomfort of the patient</p>	

HSS/N2701

Collect and assess the patient's chart and vitals

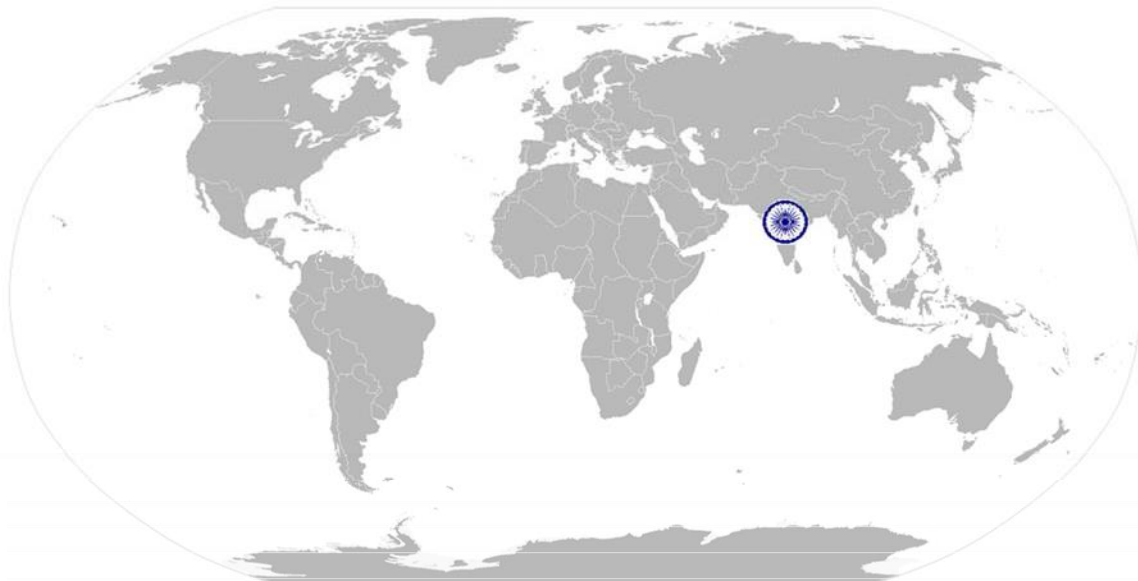
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. Think through problems, evaluate the possible solution(s) and suggest an optimum /best possible solution(s) SB7. Deal with patient until attended by other care providers and try to address any concern with acquired clinical knowledge SB8. Identify immediate or temporary solutions to resolve delays
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB9. Integrate historical, physical, social, and ancillary data into differential diagnosis in relation to dialysis SB10. Recognise indications for various diagnostic tests and treatment modalities - from medication to surgery SB11. Perform various procedures, such as lumbar punctures and inserting intravenous catheters and able to think through medical issues and exhibit sound judgment in a variety of clinical settings, including emergency situations SB12. Make concise, prompt, cogent, and thorough presentations based on various kinds of data collection SB13. Function effectively as part of the renal care team
	Critical Thinking
The user/individual on the job needs to know and understand how to: SB14. Apply, analyse, and evaluate the information gathered from the patients chart as well as by measuring the vitals, as a guide to thought and action prior to initiating dialysis	

NOS Version Control

NOS Code	HSS/2701		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16

HSS/N2702 Manage dialysis machine set up and assemble the extracorporeal circuit

National Occupational Standard



Overview

This OS unit is about setting up the dialysis machine. The purpose of dialysis is to remove waste from the blood of patients suffering from chronic or acute renal failure.

HSS/N2702 Manage dialysis machine set up and assemble the extracorporeal circuit

National Occupational Standard

Unit Code	HSS/N2702
Unit Title	Manage dialysis machine set up and assemble the extracorporeal circuit
Description	This OS unit is about setting up the dialysis machine and assembling the extracorporeal circuit. The purpose of dialysis is to remove waste from the blood of patients suffering from chronic or acute renal failure
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> The technology, functioning, calibration, and sterilisation of dialysis machines according to their: , Type/ brand ,Frequency and duration of use Maintaining the components fordoing dialysis such as dialysate, heparin, purified water etc. as required and in adequate amounts
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	<p>To be competent, the user/individual on the job:</p> <p>PC1. Needs to know and understand the mechanics and functioning of all parts of the dialysis machine being used</p> <p>PC2. Should know how to calibrate the machine without error</p> <p>PC3. Should ensure that the dialysis unit has been sterilised after previous use</p> <p>PC4. Should ensure that all the components required are adequately present</p> <p>PC5. Should know how to assemble and check the extracorporeal circuit parts i.e. the patient connectors, Dialyzer connectors, Drip chamber and bubble trap, Blood pump segment, Heparin infusion line, and saline infusion line</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. The terms of reference agreed upon with the manufacturer regarding care and maintenance of the machine</p> <p>KA2. The procedure and importance of calibration and sterilisation as per the protocols</p> <p>KA3. How to and whom to inform in case of observing something unusual about the machine</p> <p>KA4. The relevant protocols, good practices, standards, policies and procedures to be Followed</p>
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. How the machine helps to remove wastes from the blood</p> <p>KB2. The need and procedure for calibration</p> <p>KB3. How to sterilise the unit</p> <p>KB4. The basic functionalities of the applications and components that are used during the process</p> <p>KB5. How to check the extracorporeal circuit blood pressure alarm to ensure that it works properly before each treatment</p> <p>KB6. How to check the extracorporeal blood tubing parts</p>

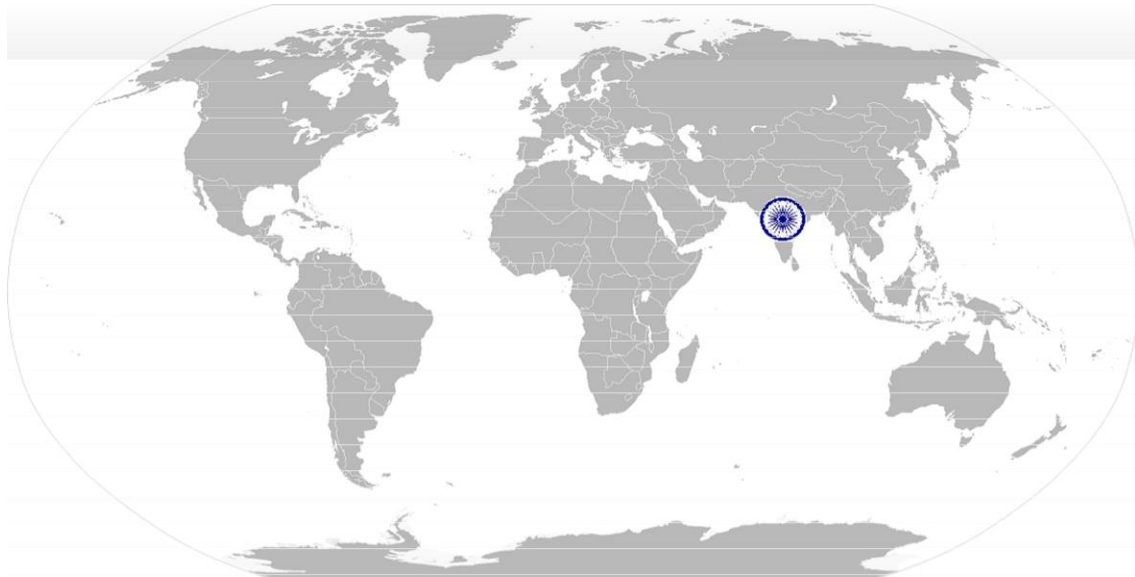
HSS/N2702 Manage dialysis machine set up and assemble the extracorporeal circuit

Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record the calibration of the machine with relevant details SA2. Record the observations made during sterilisation and set up
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA3. Read the brochure/manual of the dialysis unit and interpret it correctly SA4. Comprehend important instructions mentioned regarding setting up of the machine
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Discuss the procedure of care and maintenance of dialysis machine with the company representative and/or senior technician/bio-medical engineer
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Make decisions regarding the most appropriate practices with respect to care and functioning of the machine SB2. Apply best practices in existing processes to drive improvements
	Plan and Organize
	The user/individual on the job needs to know and understand: SB3. How to plan and organise the scheduled maintenance
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. Calibrate and set up the machine in order to provide better treatment SB5. Reassure the patient and their attendants that the dialysis unit has been well sterilised
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. Interpret any unusual readings of the machine and contact the concerned person to take remedial steps
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB7. Assist in interpreting the observations and design a solution for that
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB8. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action	

HSS/N2702 Manage dialysis machine set up and assemble the extracorporeal circuit

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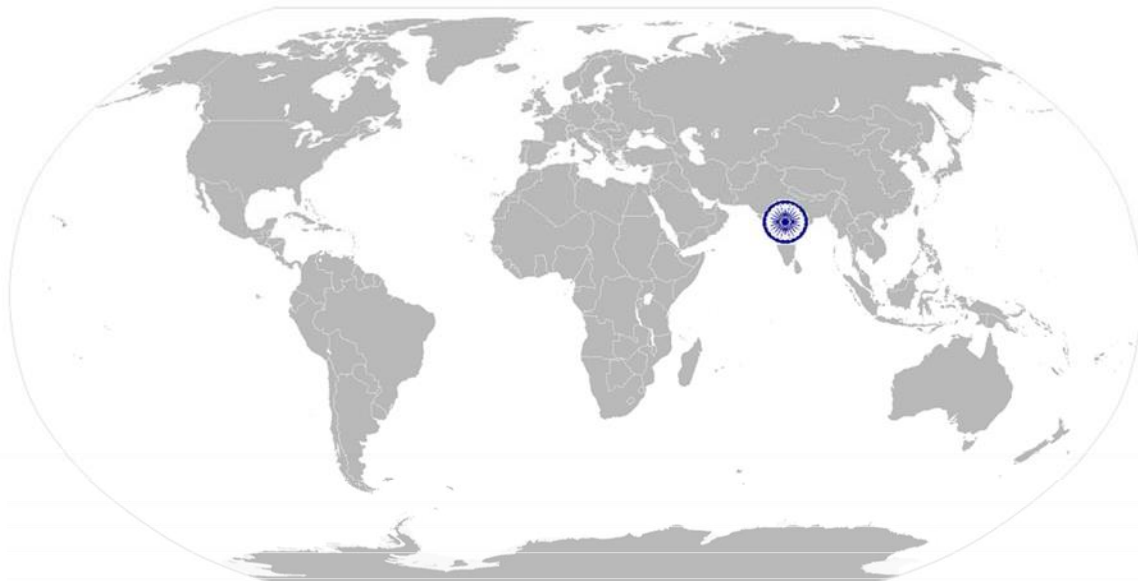
NOS Code	HSS/2702		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2703

Prepare and position the patient for treatment

National Occupational Standard



Overview

This OS unit is about correctly draping and positioning the patient for starting dialysis. The purpose of proper draping and positioning is to facilitate connecting the patient to the dialysis unit, at the same time ensuring adequate patient comfort and privacy.

HSS/N2703

Prepare and position the patient for treatment

National Occupational Standard

Unit Code		HSS/N2703
Unit Title		Prepare and position the patient for treatment
(Task)		Prepare and position the patient for treatment
Description	This OS unit is about correctly draping and positioning the patient for starting dialysis. The purpose of proper draping and positioning is to facilitate connecting the patient to the dialysis unit, at the same time ensure adequate patient comfort and privacy	
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> The dialysis technician needs to know the appropriate linen including covering sheet needed depending on the patient (male, female, child) , Assist in draping the patient and moving them on the bed/couch without disturbing catheters or any other IV line already in place , Ensure patient comfort and privacy 	
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria	
	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Maintain patients’ privacy</p> <p>PC2. Drape the patient such that it facilitates connecting the patient to the dialysis unit</p> <p>PC3. Explain the need to dress and be placed in particular position for dialysis to patient</p> <p>PC4. Perform actions gently to avoid causing pain specially taking care to not disturb any catheters, IV lines already present</p> <p>PC5. Keep the patient in a comfortable posture</p> <p>PC6. Provide the appropriate linen including covering sheet depending on the patient (male, female, child) and should know from where to obtain the same</p>	
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to:</p> <p>KA1. Follow the provider’s or organisation instructions about draping and positioning the patient</p> <p>KA2. Know and understand the relevant protocols, good practices, standards, policies and procedures</p>	
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. How to drape the patient appropriately</p> <p>KB2. How to position the patient comfortably</p> <p>KB3. How to modify the general protocol for patients with additional/special requirements (e.g. for cardiac patients, physically handicapped persons etc.)</p> <p>KB4. How to use personal protective gear while draping and positioning contagious and infected patients</p> <p>KB5. How to make sure that proper procedures and processes are followed</p>	

HSS/N2703

Prepare and position the patient for treatment

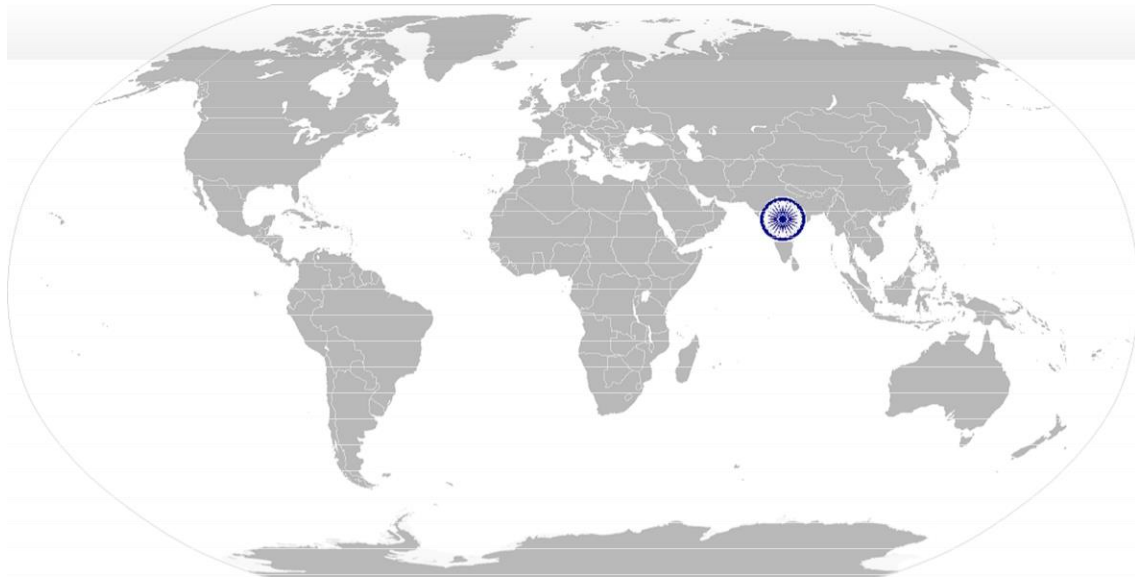
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record any observation made during the procedure
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Read the doctor/nurse instructions and interpret it correctly SA3. Comprehend important instructions mentioned in the clinical notes
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA4. Discuss the procedure with the patient and make him feel comfortable SA5. Answer patient's queries regarding their draping and positioning needs
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Make decisions regarding the best way to perform draping and positioning depending upon the patient's condition SB2. Apply best practices in existing processes to drive improvements SB3. Modify procedures to prevent spread of infection
	Plan and Organize
	The user/individual on the job needs to know and understand how to: SB4. Plan and organise the scheduled maintenance
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB5. Build rapport with patient and attendant SB6. Use patient centric approach and make the patient feel comfortable SB7. Ensure patient privacy
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB8. Interpret the patient needs related to draping and positioning and provide solution compassionately SB9. Modify general techniques for patients in distress while ensuring infection control protocol
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB10. Interpret observations and report them SB11. Use the existing experience for improving the comfort during the process
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB12. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action

HSS/N2703

Prepare and position the patient for treatment

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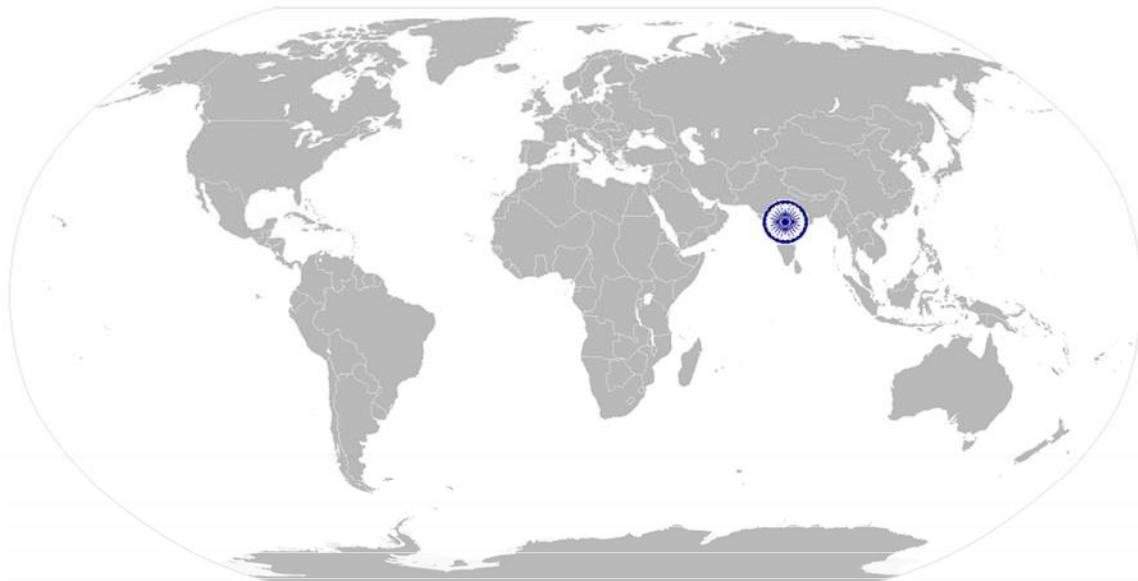
NOS Code	HSS/2703		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2704

Connect patient to the dialysis machine

National Occupational Standard



Overview

This OS unit is about connecting the patient to the dialysis unit by inserting IV lines carefully, or utilising catheters already present in patient's body for this purpose and then initiating the dialysis process.

HSS/N2704

Connect patient to the dialysis machine

National Occupational Standard

Unit Code	HSS/N2704
Unit Title	Connect patient to the dialysis machine
Description	This OS unit is about connecting the patient to the dialysis unit by inserting IV lines carefully, or utilising catheters already present in patient's body for this purpose and then initiating the dialysis process. The IV tubing is inserted by making an incision in the arm or limb of the patient and for patients already having a catheter in place for dialysis, the correct tubings are attached and connected to the specified points on the dialysis unit.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Perform the procedure for inserting IV lines at appropriate places and be able to carry out the same while causing minimum inconvenience to the patient ,perform the procedure to initiate the dialysis process
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Perform the procedure for inserting IV lines at appropriate places and be able to carry out the same while causing minimum inconvenience to the patient ,perform the procedure to initiate the dialysis process	To be competent, the user/individual on the job must : PC1. Use standard protocols for inserting IV lines and making connections to prevent infection and reduce discomfort to the patient PC2. Understand how to utilise existing catheters for performing dialysis PC3. Be aware of the protocol of starting the dialysis PC4. Minimise inconvenience and pain for the patient while performing the procedure
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. The importance of following the right procedure for inserting IV lines KA2. The protocol for starting dialysis KA3. Whom to inform in case of observing something which is clinically important KA4. Relevant protocols, good practices, standards, policies and procedures KA5. The protocol for contacting the senior technician/ physician/nurse in case of difficulty in insertion
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. How to make incisions on the limb of the patient for inserting IV lines with minimum discomfort KB2. How to use existing catheters without causing additional discomfort KB3. The purpose and functioning of the different connections KB4. The appropriate method for starting the dialysis KB5. How to manage additional equipment like other catheters or IV lines while performing the task KB6. The tubings that are required to be connected to the dialysis unit

HSS/N2704

Connect patient to the dialysis machine

	KB7. How to operate the machine after making proper connections in order to initiate dialysis
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record observations made during the procedure SA2. Identify and record the change in patient’s behaviour or pain experienced during the procedure
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA3. Read the doctor/nurse instructions and clinical reports SA4. Comprehend important instructions mentioned in the user manual of the dialysis machine
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Discuss the procedure with the patient and make him feel comfortable SA6. Answer the patient’s queries regarding the IV lines, tubings and other equipment SA7. Communicate any significant findings to the concerned physician/nurse
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB1. Make decisions regarding the appropriate size and type of catheter/ IV tubing to be used SB2. Make decisions regarding the incision e.g. on which limb/body part an incision can be made SB3. Apply best practices in existing processes to minimise spread of infection and reduce pain
	Plan and Organize
	The user/individual on the job needs to know and understand: SB4. Steps involved in making correct connections and starting the dialysis SB5. How to ensure patient is comfortable and cooperative during the process SB6. The subsequent actions which will be needed when dialysis is in progress
	Customer Centricity
	The user/individual on the job needs to know and ensure that: SB7. All IV lines, catheters, tubings are in place, functional and are of suitable size for the patient SB8. The dressing procedure is carried out appropriately so as to minimise pain SB9. Patient privacy is maintained
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB10. Interpret the patient needs related to inserting and using catheters and provide solution compassionately SB11. Prevent spread of infection to other parts by using appropriate technique

HSS/N2704

Connect patient to the dialysis machine

	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB12. Use the existing experience for improving the comfort during the process
	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

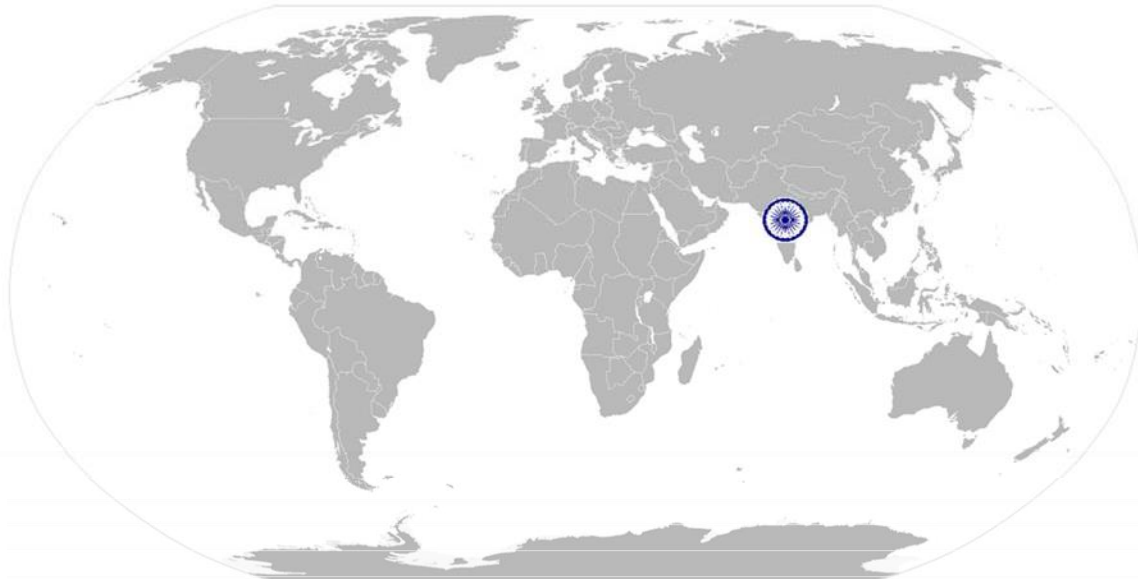
NOS Version Control

NOS Code	HSS/2704		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16

HSS/N2705

Monitor technical/ clinical vitals during the treatment

National Occupational Standard



Overview

This OS unit is about monitoring the patients' vital signs while undergoing dialysis by the dialysis technician. The purpose of monitoring is make sure that the various vital parameters like temperature, blood pressure, oxygen saturation, breathing rate, rate of blood flow etc. are within acceptable limits during the dialysis treatment.

HSS/N2705

Monitor technical/ clinical vitals during the treatment

National Occupational Standard

Unit Code		HSS/N2705
Unit Title		Monitor technical/clinical vitals during the treatment
(Task)		
Description	This OS unit is about monitoring the patients' vital signs while undergoing dialysis by the dialysis technician. The purpose of monitoring is to make sure that the various vital parameters like temperature, blood pressure, blood flow, oxygen saturation, breathing rate etc. are within acceptable limits while dialysis is going on.	
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Measuring the important parameters like blood pressure, temperature, rate of blood flow, proper mixture of dialysate, presence of air bubbles, Maintaining patient's comfort 	
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria	
Measuring the important parameters like blood pressure, temperature, rate of blood flow, proper mixture of dialysate, presence of air bubbles, Maintaining patient's comfort	<p>To be competent, the user/individual on the job must :</p> <p>PC1. Understand the various indicators, alarms and sensors of the dialysis machine</p> <p>PC2. Know the corrective steps to be taken when a particular alarm goes off</p> <p>PC3. Be alert and quick in his/her responses</p> <p>PC4. Know whom and how to inform in case of medical emergency</p>	
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. The importance of various patient parameters and how they are measured</p> <p>KA2. Whom to inform and contact in case of emergency as per the protocols</p> <p>KA3. Relevant protocols, good practices, standards, policies and procedures</p> <p>KA4. The protocol to contact the concerned physician or nurse in case the patients' vitals remain out of limit inspite of appropriate action by the technician</p>	
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. How the dialysis machine maintains and monitors blood pressure, blood flow, presence of air, proper mixture of dialysate etc.</p> <p>KB2. What the different alarms and beeps, blinking lights signify</p> <p>KB3. How to take appropriate corrective action</p> <p>KB4. The danger which could result from absence of corrective steps</p> <p>KB5. The appropriate corrective action to be taken when an alarm goes off</p> <p>KB6. How to maintain these parameters within permitted limits during dialysis</p> <p>KB7. To keep the patient comfortable during dialysis</p>	
Skills (S)		
A. Core Skills/ Generic Skills	Writing Skills	
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. Record any unusual signal by the machine</p>	

HSS/N2705

Monitor technical/ clinical vitals during the treatment

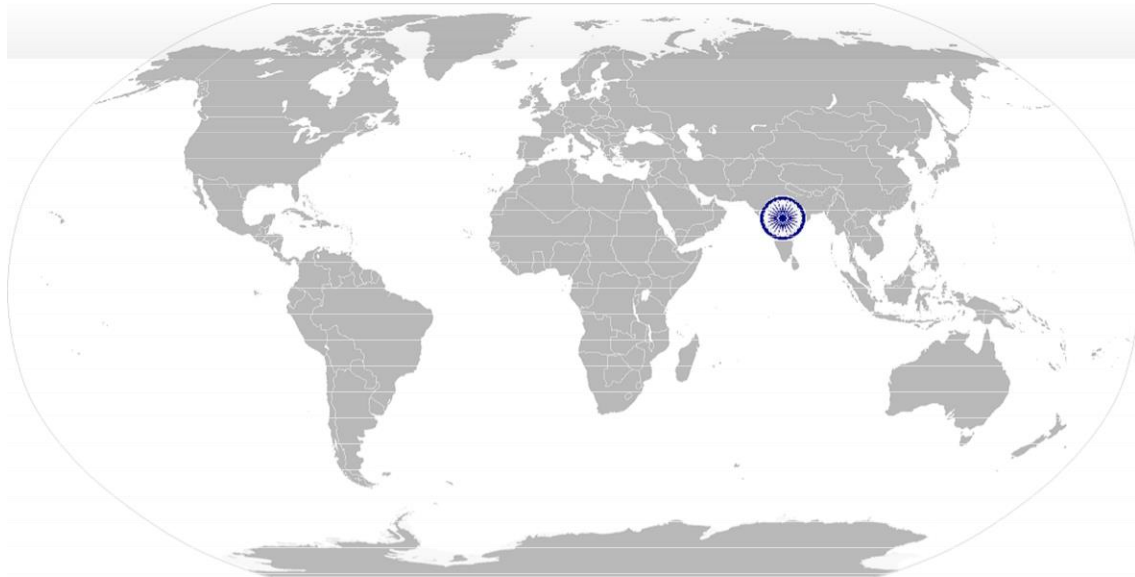
	SA2. Record and report all alarms and actions taken during the dialysis
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA3. Read and understand the functioning of the dialysis unit as given in the manufacturers manual or brochure SA4. Comprehend important instructions mentioned in patients 'clinical notes
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Respond to patients questions during the dialysis process SA6. Communicate any significant unusual findings to the physician and/or senior technician
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Recognise and rectify the cause of any signal/ alarm SB2. Pace the processes to keep patient comfortable SB3. Contact the physician when it is necessary
	Plan and Organize
	The user/individual on the job needs to: SB4. Plan and be prepared to carry out the corrective steps as needed SB5. Check if all the components and constituents of the dialysis unit are in functional order and organised before starting
	Customer Centricity
	The user/individual on the job needs to know and ensure that: SB6. Patient is comfortable during the process SB7. Patient does not panic at the sound of an alarm
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB8. Interpret the alarms / signals of the machine during dialysis and take appropriate action
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB9. Interpret an unusual signal and report it SB10. Use appropriate techniques to take remedial action
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB11. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action

HSS/N2705

Monitor technical/ clinical vitals during the treatment

NOS Version Control

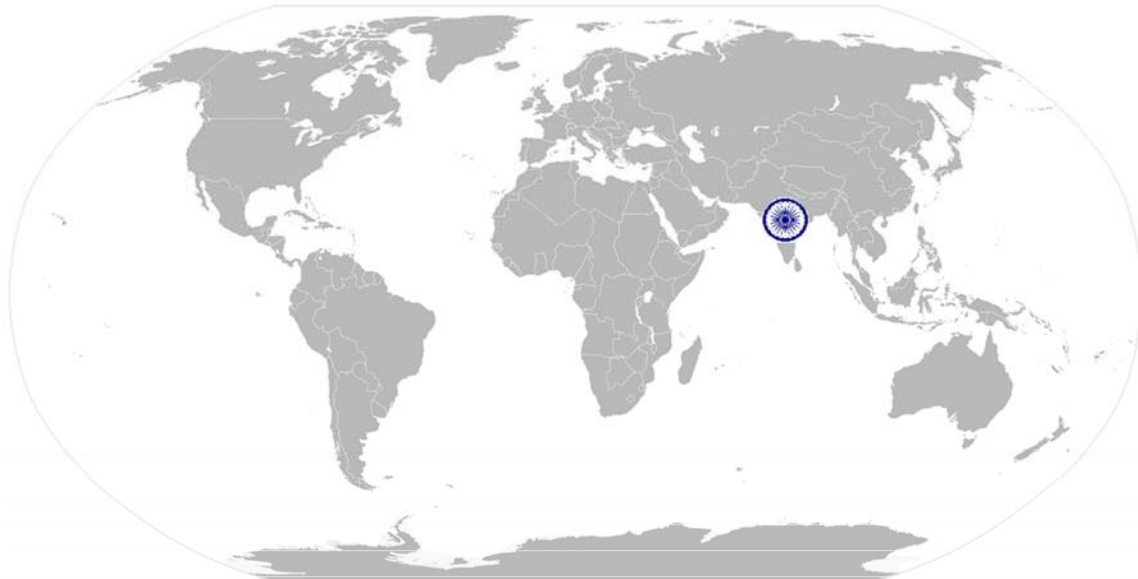
NOS Code	HSS/2705		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2706

Unhook patient from the machine

National Occupational Standard



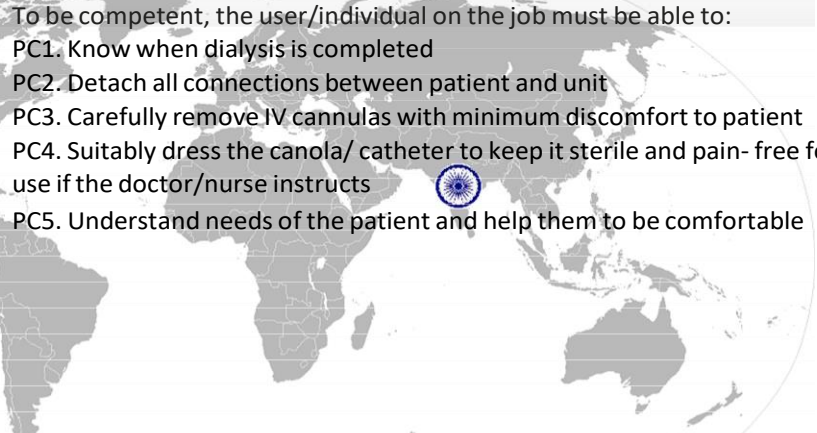
Overview

This OS unit is about unhooking the patient from the machine by the dialysis technician after the dialysis has been completed. The purpose of unhooking is to disconnect the patient from the dialysis machine by detaching the tubings and other connecting lines from the limb of the patient.

HSS/N2706

Unhook patient from the machine

National Occupational Standard

Unit Code	HSS/N2706
Unit Title	Unhook patient from the machine
(Task)	
Description	This OS unit is about unhooking the patient from the machine by the dialysis technician after the dialysis has been completed. The purpose of unhooking is to disconnect the patient from the dialysis machine by detaching the tubings and other connecting lines from the limb of the patient.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Perform procedure to disconnect the patient when the dialysis session is complete and it is appropriate to disconnect , Perform the procedure to remove the IV cannula from the patients' limb or cover it with suitable dressing for future use depending upon the doctors' instructions
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Perform procedure to disconnect the patient when the dialysis session is complete and it is appropriate to disconnect , Perform the procedure to remove the IV cannula from the patients' limb or cover it with suitable dressing for future use depending upon the doctors' instructions	To be competent, the user/individual on the job must be able to: <ul style="list-style-type: none"> PC1. Know when dialysis is completed PC2. Detach all connections between patient and unit PC3. Carefully remove IV cannulas with minimum discomfort to patient PC4. Suitably dress the canola/ catheter to keep it sterile and pain- free for future use if the doctor/nurse instructs PC5. Understand needs of the patient and help them to be comfortable 
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to: <ul style="list-style-type: none"> KA1. Follow relevant protocols, good practices, standards, policies and procedures for removing / dressing cannulas and catheters KA2. Inform doctor/nurse in case a difficulty arises during unhooking or if patient feels uneasy as per protocol
B. Technical Knowledge	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KB1. The signal/sound from machine to indicate completion of dialysis KB2. The protocol for disconnecting KB3. The technique for removing / putting a dressing on cannulas or catheters KB4. That the procedure is done in a manner which prevents infection
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	Not Applicable

HSS/N2706

Unhook patient from the machine

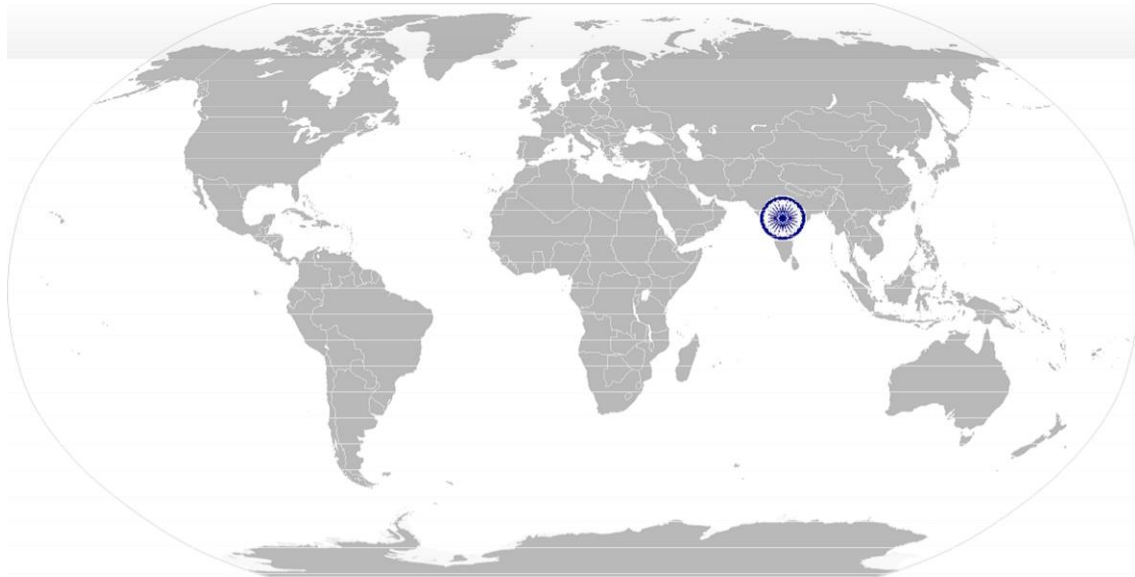
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA1. Record important instruction like keeping of cannula or catheter and follow them correctly
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to: SA2. Understand and know how to respond to patient’s needs in coming back to a comfortable position SA3. Answer patients’ queries compassionately
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to: SB1. Identify the signals from the dialysis machine which indicate completion of the process SB2. Follow correct protocols for disconnecting tubings SB3. Use right techniques for removing / dressing IV cannulas and catheters SB4. Modify procedures to keep patient more comfortable
	Plan and Organize
	The user/individual on the job needs to know and understand: SB5. How to plan and organise the movement of patient i.e. for immobile patient, keep a wheel chair or stretcher near and help patient to move onto it
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB6. Perform all procedures gently to avoid causing pain to patient SB7. Be quick and alert to patients’ needs
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB8. Identify unusual observations regarding site of catheter or IV line and report them SB9. Assist the patient in getting into a comfortable position
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB10. Interpret machine signals for process completion and act subsequently SB11. Assist immobile patients to attain a comfortable position after dialysis
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB12. Apply, analyse, and evaluate the information gathered from observation experience, reasoning, or communication, as a guide to belief and action

HSS/N2706

Unhook patient from the machine

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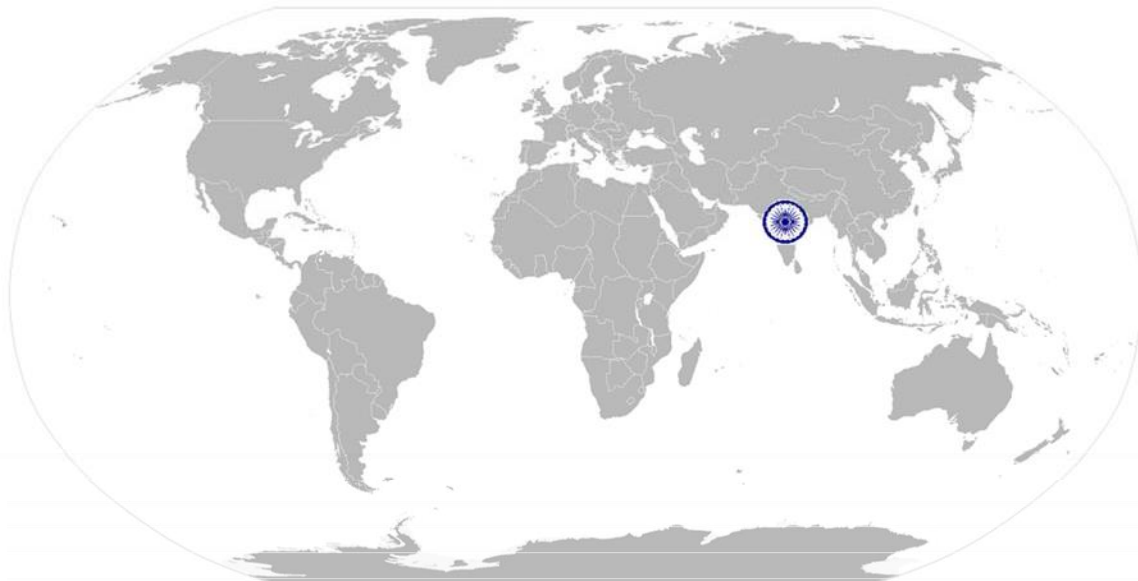
NOS Code	HSS/2706		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2707

Record the treatment

National Occupational Standard



Overview

This OS unit is about documenting the performed dialysis treatment on the patient's chart by the dialysis technician. The purpose of documenting is to have a record of the procedures being performed on the patient which would help in further treatment options.

HSS/N2707

Record the treatment

National Occupational Standard

Unit Code	HSS/N2707
Unit Title (Task)	Record the treatment
Description	This OS unit is about documenting the performed dialysis treatment on the patient's chart by the dialysis technician. The purpose of documenting is to have a record of the procedures being performed on the patient which would help in further treatment options.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Recording the dialysis procedure on the medical report/chart of the patient
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Recording the dialysis procedure on the medical report/chart of the patient	To be competent, the user/individual on the job must be able to: PC1. Follow the right format for documenting the dialysis on the patient's chart PC2. Record the components/ constituents and their quantities used PC3. Understand the importance of documenting the procedure on the patient's chart PC4. Record the quantity and type of constituents like dialysate, acid mixture etc. used during the process
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. The relevant protocol and format for documenting treatments in the clinical records of the patient
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. How to document the procedure in a clear concise manner KB2. How to include the relevant details in the documentation KB3. The name and type of the constituents used during the process KB4. How to make note of the time taken for the procedure
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record treatment on the patient's chart in the proper format without any language errors
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Read, understand and interpret the clinical notes and know where to document the performed dialysis

HSS/N2707

Record the treatment

	Oral Communication (Listening and Speaking skills)
	Not Applicable
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand: SB1. How to document the procedure and include relevant details in the prescribed format
	Plan and Organize
	The user/individual on the job needs to know and understand: SB2. How to organise the patient’s report for doctors reference SB3. Which details need to be documented on the patient’s chart
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB4. Be meticulous in documenting the procedure knowing that it would have consequences on future treatment options for the patient
	Problem Solving
	Not Applicable
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB5. Document the procedure using prescribed protocols and format
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB6. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action	

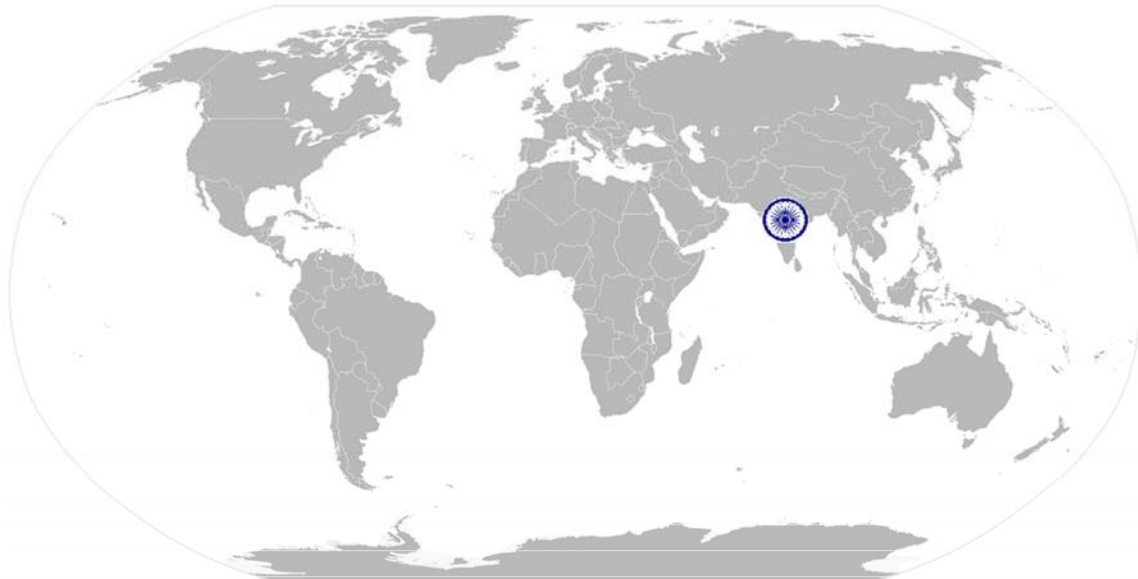
NOS Version Control

NOS Code	HSS/2707		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16

HSS/N2708

Conduct pre and post dialysis evaluation

National Occupational Standard



Overview

This OS unit is about observing, documenting and reporting any change in patient's condition by the dialysis technician during and after dialysis. Observing and reporting changes is necessary to ensure that patient is comfortable and stable and that dialysis has been well tolerated.

HSS/N2708

Conduct pre and post dialysis evaluation

National Occupational Standard

Unit Code		HSS/N2708
Unit Title		Conduct pre and post dialysis evaluation
(Task)		
Description	This OS unit is about observing, documenting and reporting any change in patient's condition by the dialysis technician before, during and after dialysis. Observing and reporting changes is necessary to ensure that patient is comfortable and stable and that dialysis has been well tolerated	
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Observing the patient before and during dialysis and make note of any change in blood pressure, body temperature, breathlessness or any other symptom expressed by the patient, Communicate the observed changes to the doctor/nurse, Documenting the changes / symptoms as well as remedial actions taken for future reference 	
Performance Criteria(PC) w.r.t. the Scope		
Element	Performance Criteria	
	<p>To be competent, the user/individual on the job must:</p> <p>PC1. Read and understand the patients' reports</p> <p>PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate</p> <p>PC3. Recognise the levels of vital parameters under which dialysis can be performed safely</p> <p>PC4. Be alert in noticing any change or distress in the patient during or after dialysis</p> <p>PC5. Communicate effectively with patient, doctors and nurses to enable quick remedial action</p> <p>PC6. Document the changes as per protocol</p>	
Knowledge and Understanding (K)		
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. How to communicate effectively with co-workers as per the defined protocol</p> <p>KA2. Whom and how to contact in case of emergency as per protocol</p> <p>KA3. The relevant protocol and format for documenting treatments in the clinical records of the patient</p>	
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. How to observe and identify changes in patient's condition</p> <p>KB2. The method for proper documentation</p> <p>KB3. How to effectively communicate the observed symptoms and assist in providing remedial measures as appropriate</p>	
Skills (S)		
A. Core Skills/ Generic Skills	Writing Skills	
	<p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. Record and report the observations and symptoms of the patient using the right protocol</p>	

HSS/N2708

Conduct pre and post dialysis evaluation

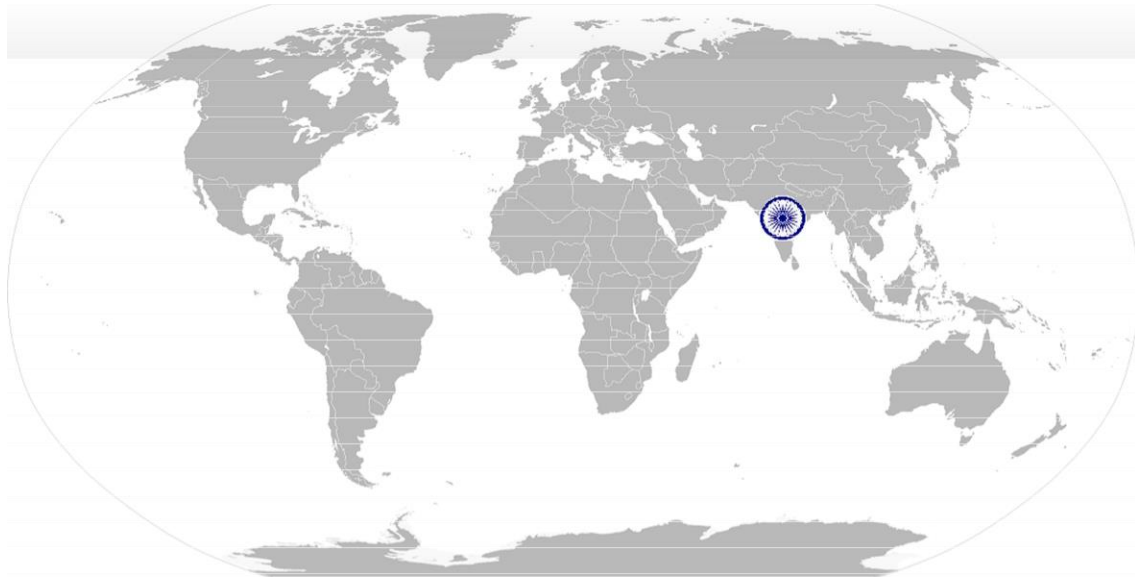
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Follow instructions as specified in the patient file
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. Listen carefully to what patient is saying / trying to express SA4. Communicate patient’s condition in an efficient, timely and effective manner
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand: SB1. The change in patient’s condition as observed or expressed by the patient and what they signify SB2. How to communicate to the concerned person and send across the message quickly
	Plan and Organize
	The user/individual on the job needs to know and understand: SB3. How to record and document patient’s symptoms in a planned manner SB4. How to formulate and structure message correctly for communicating with other co-workers
	Customer Centricity
	The user/individual on the job needs to know and understand how to: SB5. Be a good listener and be sensitive to patient
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB6. Communicate and document changes in the right manner SB7. Give feedback when required
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB8. Communicate a message related to patient care effectively and promptly to a co-worker
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB9. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action	

HSS/N2708

Conduct pre and post dialysis evaluation

NOS Version Control

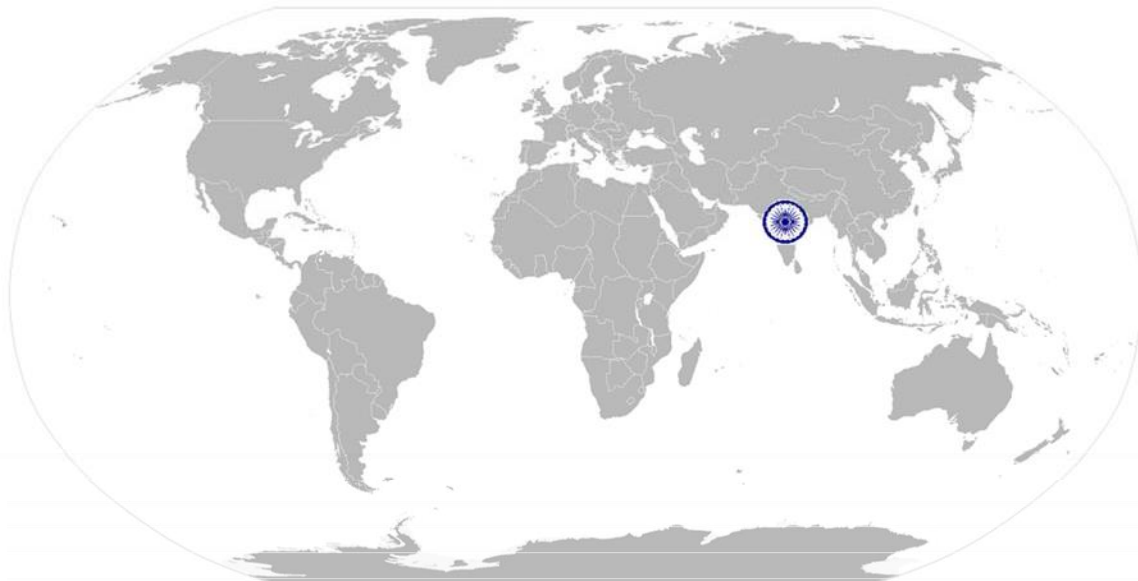
NOS Code	HSS/2708		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2709

Maintain and disinfect the delivery system

National Occupational Standard



Overview

This OS unit is about aftercare and cleaning of the machine by the dialysis technician to be ready for the next use. Aftercare & cleaning of the dialysis unit is necessary to keep it sterile and maintain its accuracy and functionality for subsequent use.

HSS/N2709

Maintain and disinfect the delivery system

National Occupational Standard

Unit Code	HSS/N2709
Unit Title (Task)	Maintain and disinfect the delivery system
Description	This OS unit is about aftercare and cleaning of the machine by the dialysis technician and prepare it for the next patient. Aftercare & cleaning of the dialysis unit is necessary to keep it sterile and maintain its accuracy and functionality for subsequent use.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Performing the standard procedure for cleaning the different parts using appropriate cleaning agents , Performing procedures to keep the unit sterile and functional
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Performing the standard procedure for cleaning the different parts using appropriate cleaning agents , Performing procedures to keep the unit sterile and functional	To be competent, the user/individual on the job must be able to: <ul style="list-style-type: none"> PC1. Clean up any spillage PC2. Know when the dialysate, dialyzer or other constituents need to be replaced PC3. Follow standard sterilisation and cleaning procedure for the unit PC4. Disinfect dialysis machine according to the manufacturer’s recommendations PC5. The dialysate circuit should be exposed to disinfectant
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KA1. What are the standard procedures for cleaning and sterilization of the machine/unit KA2. Where to obtain supplies of cleaning agents and reusable parts KA3. About the servicing policies adopted by the organisation
B. Technical Knowledge	The user/individual on the job needs to know and understand: <ul style="list-style-type: none"> KB1. The cleaning and maintenance procedures of the machine KB2. How the reused bicarbonate/acid containers be disinfected between use KB3. How to disinfect the system using disinfectants and rinse solutions KB4. How to rinse machines between chemicals and before a dialysis session KB5. The Dead space is needed between dialysate effluent line and drain KB6. Which parts need replacement and how to do it KB7. How to undertake sterilisation of the unit KB8. The components of the dialysis unit and their functioning
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA1. Record and report cleaning and sterilisation procedures performed
	Reading Skills
	The user/individual on the job needs to know and understand how to: <ul style="list-style-type: none"> SA2. Follow instructions on the user manual/brochure of the machine

HSS/N2709

Maintain and disinfect the delivery system

	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. Communicate any unusual findings regarding machine components or sterilisation to the bio-medical engineer or senior technician
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB1. Identify components which need to be replaced SB2. Know which type of observations regarding machine-care need to be reported immediately
	Plan and Organize
	The user/individual on the job needs to: SB3. Plan and organise the cleaning and sterilisation process as per the schedule
	Customer Centricity
	The user/individual on the job needs to know: SB4. The importance of cleaning and sterilisation to prevent the spread of infection
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. Handle any accidental spillage or contamination of the unit
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB6. Perform cleaning and sterilisation procedures in a meticulous manner
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB7. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action

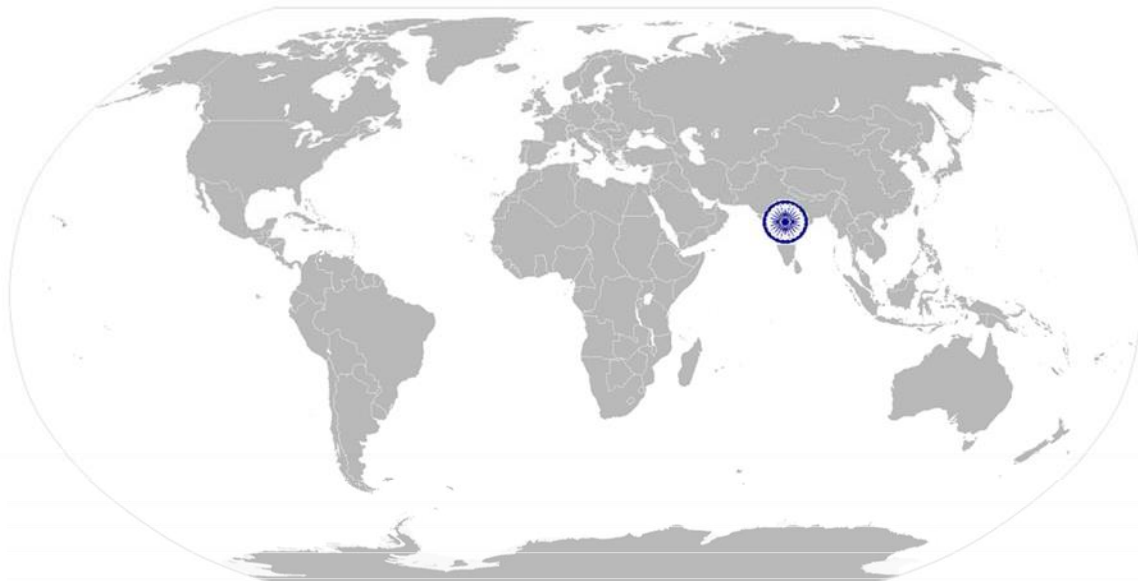
NOS Version Control

NOS Code	HSS/2709		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16

HSS/N2710

Evaluate and prepare the site for cannulation

National Occupational Standard



Overview

This OS unit describes the knowledge, understanding, skills required of a Dialysis Technician for evaluating and preparing a site for vascular access and cannulation prior to initiating dialysis.

HSS/N2710

Evaluate and prepare the site for cannulation

National Occupational Standard

Unit Code	HSS/N2710
Unit Title	Evaluate and prepare the site for cannulation
Description	This OS unit is about evaluating the vascular access site and cannulating prior to initiation of the dialysis treatment of a patient.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Evaluating the vascular access site , Cannulating the patient
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Evaluating the vascular access site , Cannulating the patient	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Describe the three main types of vascular access (fistulae, grafts and catheters)</p> <p>PC2. Identify the predialysis assessments for all types of vascular access.</p> <p>PC3. Describe the methods of needle insertion for AVFs and grafts.</p> <p>PC4. Describe the predialysis assessment, accessing procedure, exit site care, and monitoring of catheters</p> <p>PC5. Describe how fistulae are created and the pros and cons of these</p> <p>PC6. Assess the maturity of a fistula</p> <p>PC7. Describe how grafts are created and the pros and cons of these</p> <p>PC8. Describe how catheters are placed and the various methods of catheter placement (both short and long term)</p> <p>PC9. Describe the pros and cons of catheters</p> <p>PC10. Describe the types of catheter and port/catheter devices</p> <p>PC11. Assess a fistula or graft prior to each treatment by inspecting (looking for infection, steal syndrome, stenosis, etc.), auscultating (listening for bruit and deep access location), and palpating (feeling for skin temperature, thrill, stenosis, vein diameter etc.) the access</p> <p>PC12. Assess the blood flow before inserting a needle into the fistula/ graft</p> <p>PC13. Assess catheters prior to dialysis treatment</p> <p>PC14. Describe the considerations for accessing catheters and cleansing exit sites</p> <p>PC15. Describe the various methods for preparing a patient's skin for cannulation</p> <p>PC16. Prepare a patient's skin for cannulation using anti-bacterial solutions</p> <p>PC17. Apply a tourniquet</p> <p>PC18. Select a site for cannulation and insert a needle into the patient's vein</p> <p>PC19. Understand the concept of Antegrade and retrograde needle direction</p> <p>PC20. Understand how to rotate cannulation sites for fistulae and grafts</p> <p>PC21. Secure needles after insertion</p> <p>PC22. Describe common complications that occur due to: <ul style="list-style-type: none"> Fistulae, grafts and catheters Poor needle site rotation Dialysis </p> <p>PC23. Monitor catheters during the treatments</p> <p>PC24. Describe post-dialysis care for fistulae, catheters and grafts</p>

HSS/N2710

Evaluate and prepare the site for cannulation

Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Clinical practice guidelines for vascular access KA2. Clinical guidelines for preparing a site for vascular access KA3. Where to obtain supplies of cleaning agents and reusable parts
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB1. The three main types of vascular access (fistulae, grafts and catheters) KB2. The process for predialysis assessments for all types of vascular access. KB3. The methods of needle insertion for AVFs and grafts. KB4. The process for predialysis assessment, accessing procedure, exit site care, and monitoring of catheters KB5. How fistulae are created and the pros and cons of these KB6. How to assess the maturity of a fistula KB7. How grafts are created and the pros and cons of these KB8. How catheters are placed and the various methods of catheter placement (both short and long term) KB9. The pros and cons of catheters KB10. The types of catheter and port/catheter devices KB11. How to assess a fistula or graft prior to each treatment by inspecting (looking for infection, steal syndrome, stenosis, etc.), auscultating (listening for bruit and deep access location), and palpating (feeling for skin temperature, thrill, stenosis, vein diameter etc.) the access KB12. How to assess the blood flow before inserting a needle into the fistula/ graft KB13. How to assess catheters prior to dialysis treatment KB14. The considerations for accessing catheters and cleansing exit sites KB15. The various methods for preparing a patient's skin for cannulation KB16. How to prepare a patient's skin for cannulation using anti-bacterial solutions KB17. How to apply a tourniquet KB18. How to select a site for cannulation and insert a needle into the patient's vein KB19. The concept of Antegrade and retrograde needle direction KB20. How to rotate cannulation sites for fistulae and grafts KB21. How to secure needles after insertion KB22. Common complications that occur due to: a. Fistulae, grafts and catheters b. Poor needle site rotation c. Dialysis KB23. How to monitor catheters during the treatments KB24. Post-dialysis care for fistulae, catheters and grafts
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record and report the procedures performed SA2. Record the assessment of the vascular site

HSS/N2710

Evaluate and prepare the site for cannulation

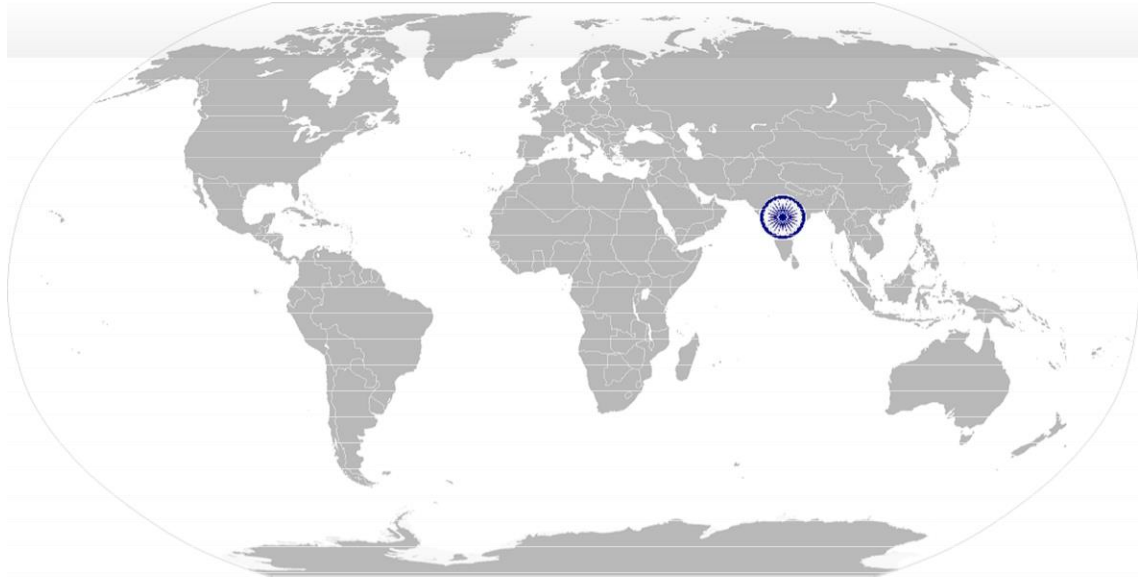
	SA3. Record any problems observed with the fistula, graft or catheter
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA4. Follow instructions for vascular access
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA5. Communicate any unusual findings regarding the access sites or patient assessment to the appropriate medical personnel
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB1. Identify complications in vascular access SB2. Know when to request for medical attention to a patient's access site, graft, catheter or fistula
	Plan and Organize
	The user/individual on the job needs to: SB3. Plan and organise the dialysis process
	Customer Centricity
	The user/individual on the job needs to know: SB4. The importance of cleaning and sterilisation to prevent the spread of infection SB5. How to calm and reassure a patient SB6. How to deal with fear of needles in a patient
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB7. Handle any complication in initiating vascular access
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB8. Perform cleaning and sterilisation procedures in a meticulous manner
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB9. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action

HSS/N2710

Evaluate and prepare the site for cannulation

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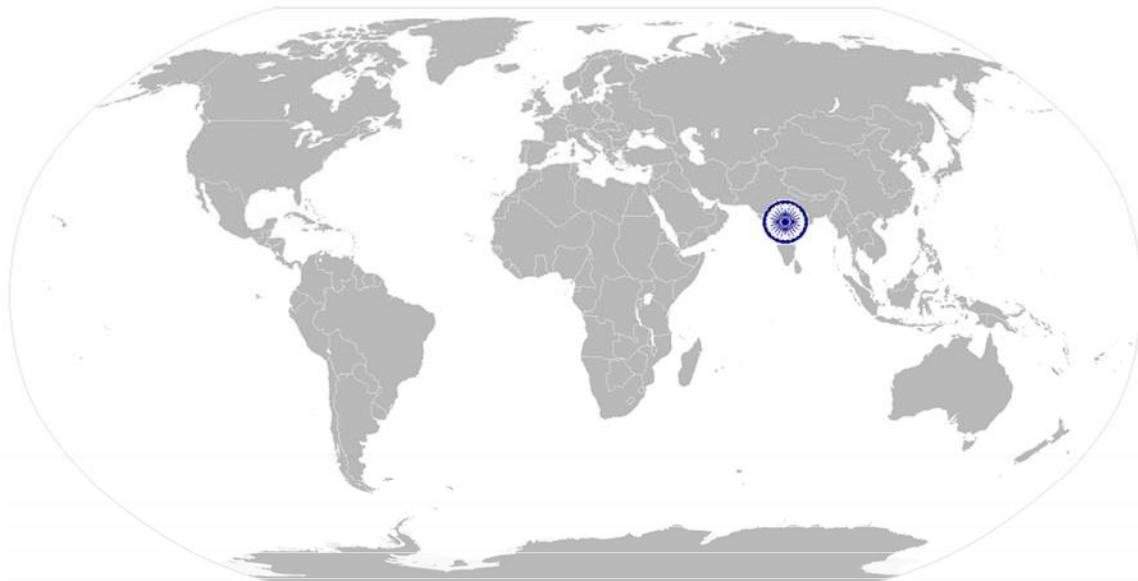
NOS Code	HSS/2710		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2711

Respond to dialysis related emergencies in patient and equipment

National Occupational Standard



Overview

This OS unit describes the knowledge, understanding, skills required of a Dialysis Technician for responding to any complications or emergencies in the equipment or the patient related to dialysis during the treatment.

HSS/N2711

Respond to dialysis related emergencies in patient and equipment

National Occupational Standard

Unit Code	HSS/N2711
Unit Title (Task)	Respond to dialysis related emergencies in patient and equipment
Description	This OS unit is about responding to any complications or emergencies in the equipment or the patient related to dialysis during the treatment
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Monitoring the patient and equipment during the treatment , Identifying and responding to any complications or emergencies
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Monitoring the patient and equipment during the treatment , Identifying and responding to any complications or emergencies	To be competent, the user/individual on the job must be able to: <p>PC1. Clean up any spillage</p> <p>PC2. Know when the dialysate, dialyzer or other constituents need to be replaced</p> <p>PC3. Follow standard sterilisation and cleaning procedure for the unit</p> <p>PC4. Disinfect dialysis machine according to the manufacturer’s recommendations</p> <p>PC5. The dialysate circuit should be exposed to disinfectant</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <p>KA1. What are the standard procedures for cleaning and sterilization of the machine/unit</p> <p>KA2. Where to obtain supplies of cleaning agents and reusable parts</p> <p>KA3. About the servicing policies adopted by the organisation</p>
B. Technical Knowledge	The user/individual on the job needs to know and understand: <p>KB1. The cleaning and maintenance procedures of the machine</p> <p>KB2. How the reused bicarbonate/acid containers be disinfected between use</p> <p>KB3. How to disinfect the system using disinfectants and rinse solutions</p> <p>KB4. How to rinse machines between chemicals and before a dialysis session</p> <p>KB5. The Dead space is needed between dialysate effluent line and drain</p> <p>KB6. Which parts need replacement and how to do it</p> <p>KB7. How to undertake sterilisation of the unit</p> <p>KB8. The components of the dialysis unit and their functioning</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: <p>SA1. Record and report cleaning and sterilisation procedures performed</p>
	Reading Skills
	The user/individual on the job needs to know and understand how to: <p>SA2. Follow instructions on the user manual/brochure of the machine</p>
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: <p>SA3. Communicate any unusual findings regarding machine components or</p>

HSS/N2711

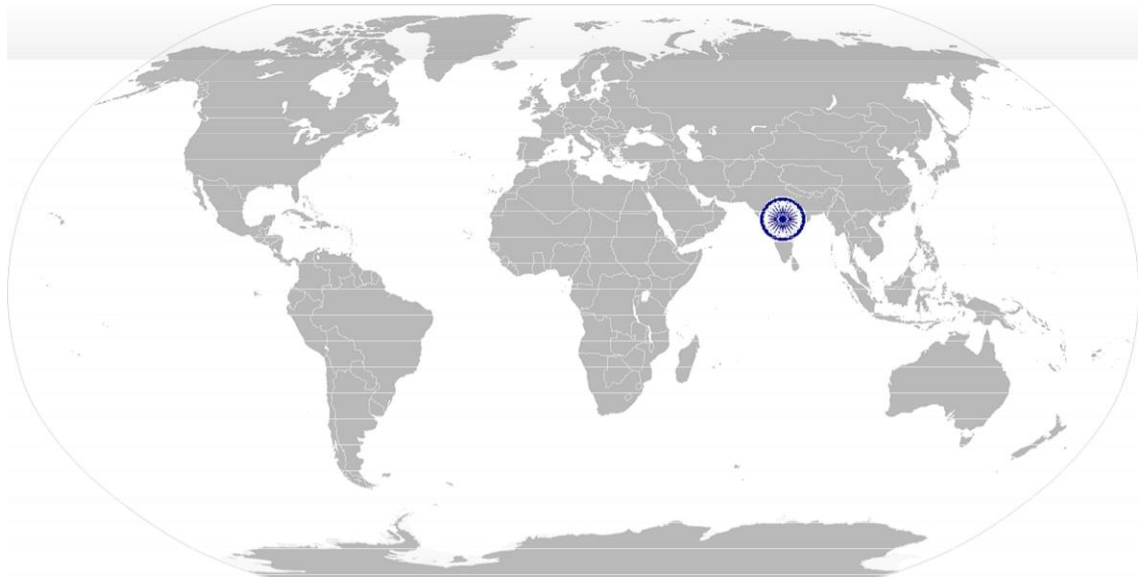
Respond to dialysis related emergencies in patient and equipment

	sterilisation to the bio-medical engineer or senior technician
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB1. Identify components which need to be replaced SB2. Know which type of observations regarding machine-care need to be reported immediately
	Plan and Organize
	The user/individual on the job needs to: SB3. Plan and organise the cleaning and sterilisation process as per the schedule
	Customer Centricity
	The user/individual on the job needs to know: SB4. The importance of cleaning and sterilisation to prevent the spread of infection
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. Handle any accidental spillage or contamination of the unit
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB6. Perform cleaning and sterilisation procedures in a meticulous manner
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB7. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action	

HSS/N2711 Respond to dialysis related emergencies in patient and equipment

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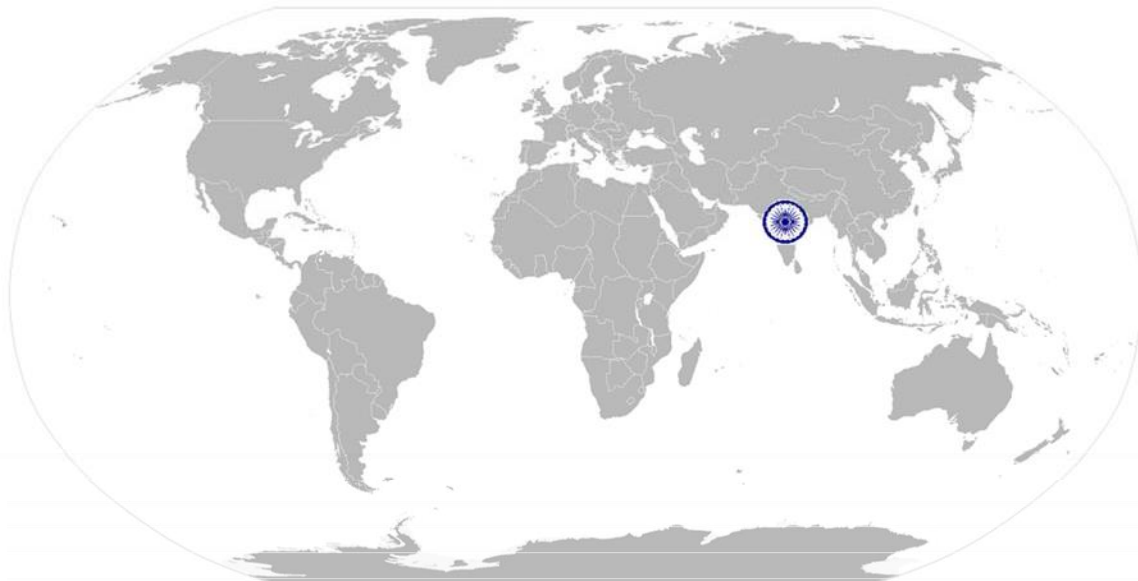
NOS Code	HSS/2711		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2712

Reprocess dialysers

National Occupational Standard



Overview

This OS unit is about aftercare and cleaning of the machine by the dialysis technician to be ready for the next use. Aftercare & cleaning of the dialysis unit is necessary to keep it sterile and maintain its accuracy and functionality for subsequent use.

HSS/N2712

Reprocess dialysers

National Occupational Standard

Unit Code	HSS/N2712
Unit Title (Task)	Reprocess dialysers
Description	This OS unit is about aftercare and cleaning of the machine by the dialysis technician and prepare it for the next patient. Aftercare & cleaning of the dialysis unit is necessary to keep it sterile and maintain its accuracy and functionality for subsequent use.
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Performing the standard procedure for cleaning the different parts using appropriate cleaning agents , Performing procedures to keep the unit sterile and functional
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Performing the standard procedure for cleaning the different parts using appropriate cleaning agents , Performing procedures to keep the unit sterile and functional	To be competent, the user/individual on the job must be able to: PC6. Clean up any spillage PC7. Know when the dialysate, dialyzer or other constituents need to be replaced PC8. Follow standard sterilisation and cleaning procedure for the unit PC9. Disinfect dialysis machine according to the manufacturer’s recommendations PC10. The dialysate circuit should be exposed to disinfectant
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA4. What are the standard procedures for cleaning and sterilization of the machine/unit KA5. Where to obtain supplies of cleaning agents and reusable parts KA6. About the servicing policies adopted by the organisation
B. Technical Knowledge	The user/individual on the job needs to know and understand: KB9. The cleaning and maintenance procedures of the machine KB10. How the reused bicarbonate/acid containers be disinfected between use KB11. How to disinfect the system using disinfectants and rinse solutions KB12. How to rinse machines between chemicals and before a dialysis session KB13. The Dead space is needed between dialysate effluent line and drain KB14. Which parts need replacement and how to do it KB15. How to undertake sterilisation of the unit KB16. The components of the dialysis unit and their functioning
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA4. Record and report cleaning and sterilisation procedures performed
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA5. Follow instructions on the user manual/brochure of the machine

HSS/N2712

Reprocess dialysers

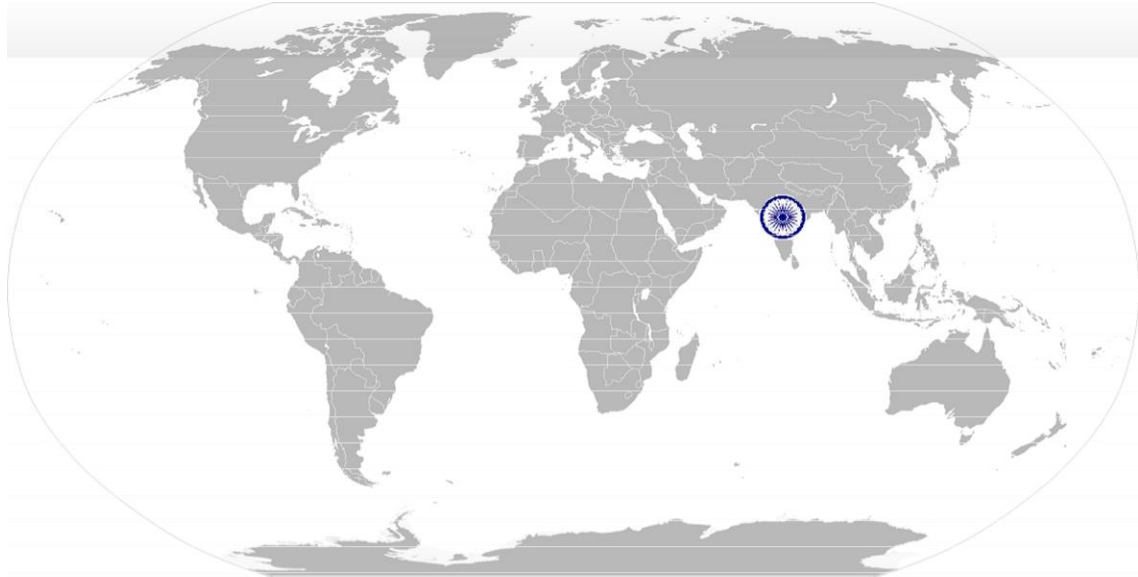
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA6. Communicate any unusual findings regarding machine components or sterilisation to the bio-medical engineer or senior technician
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB8. Identify components which need to be replaced SB9. Know which type of observations regarding machine-care need to be reported immediately
	Plan and Organize
	The user/individual on the job needs to: SB10. Plan and organise the cleaning and sterilisation process as per the schedule
	Customer Centricity
	The user/individual on the job needs to know: SB11. The importance of cleaning and sterilisation to prevent the spread of infection
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB12. Handle any accidental spillage or contamination of the unit
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB13. Perform cleaning and sterilisation procedures in a meticulous manner
	Critical Thinking
	The user/individual on the job needs to know and understand how to: SB14. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action

HSS/N2712

Reprocess dialysers

NOS Version Control

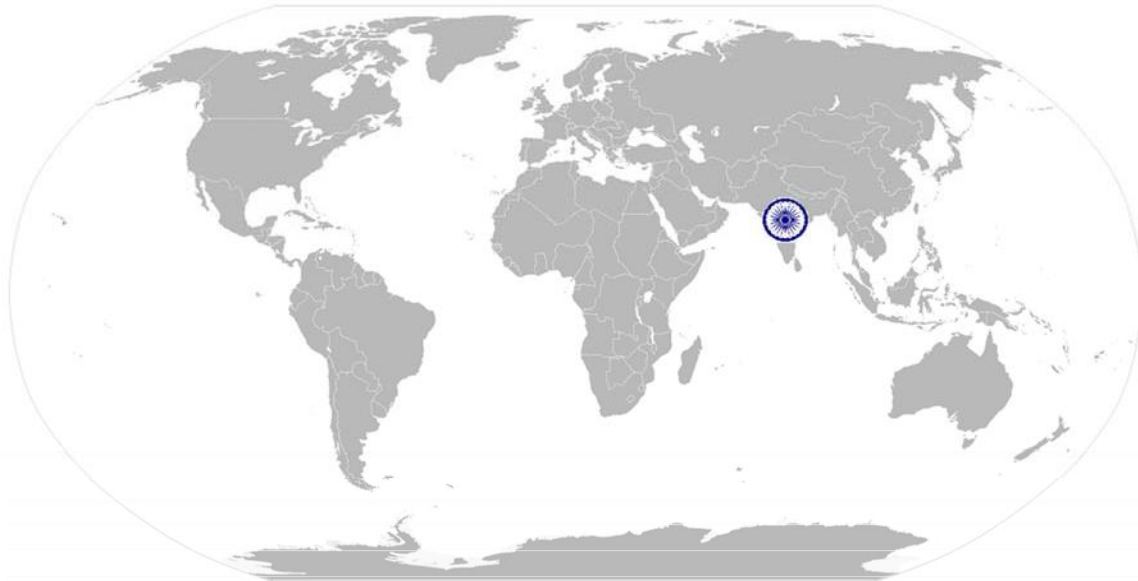
NOS Code	HSS/2712		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



HSS/N2713

Operate and maintain water treatment plant

National Occupational Standard



Overview

This OS unit is about operating, maintaining and monitoring the water treatment plant.

HSS/N2713

Operate and maintain water treatment plant

National Occupational Standard

Unit Code	HSS/N2713
Unit Title	Operate and maintain water treatment plant
(Task)	Operate and maintain water treatment plant
Description	This OS unit is about operating, maintaining, and monitoring the water treatment plant
Scope	This unit/task covers the following: <ul style="list-style-type: none"> • Checking and maintaining the water treatment plant for proper functioning
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
Checking and maintaining the water treatment plant for proper functioning	To be competent, the user/individual on the job must be able to: <p>PC1. Check the incoming water temperature</p> <p>PC2. Look around the RO(reverse osmosis) system for any visible fluid leaks</p> <p>PC3. Check and record the pressure gauge</p> <p>PC4. Measure and record the pressures before and after the endotoxin filter</p> <p>PC5. Record all checks, including time and initials, on the Daily Dialysis Water Equipment Monitoring Log Sheet</p> <p>PC6. Check and record the pump, reject, and product pressures</p> <p>PC7. Check and record the recycle, waste, and permeate flow rates</p> <p>PC8. Check and record the inlet and permeate conductivities</p> <p>PC9. Read the RO monitor and record the conductivity and percent rejection</p> <p>PC10. Check and record the pump run hours</p> <p>PC11. Check the multi-media sediment filter</p> <p>PC12. Measure and record the pressures before and after the multi-media filter</p> <p>PC13. Check the water softener</p> <p>PC14. Measure and record the pressures before and after the water softener</p> <p>PC15. Check and record the setting for the regeneration timer. The timer should be set to activate when the facility, especially the RO, is not operating</p> <p>PC16. Check the brine tank</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: <p>KA1. What are the standard procedures for cleaning and sterilization of the machine/unit</p> <p>KA2. Where to obtain supplies of cleaning agents and reusable parts</p> <p>KA3. About the servicing policies adopted by the organisation</p>
B. Technical Knowledge	The user/individual on the job needs to know and understand how to: <p>KB1. Measure and record the pressures before and after the pre-filter</p> <p>KB2. Calculate and record the pressure change across the pre-filter</p> <p>KB3. Calculate and record the pressure change across the filter</p> <p>KB4. Perform chemical analyses for contaminants in the water, If the conductivity is less than the prescribed limit</p> <p>KB5. Perform chemical analyses for contaminants in the water, If the percent rejection is less than 90%</p> <p>KB6. Look for the presence of a salt bridge, where salt at the top of the tank solidifies, making it appear as though the tank is full when it is actually empty</p>

HSS/N2713

Operate and maintain water treatment plant

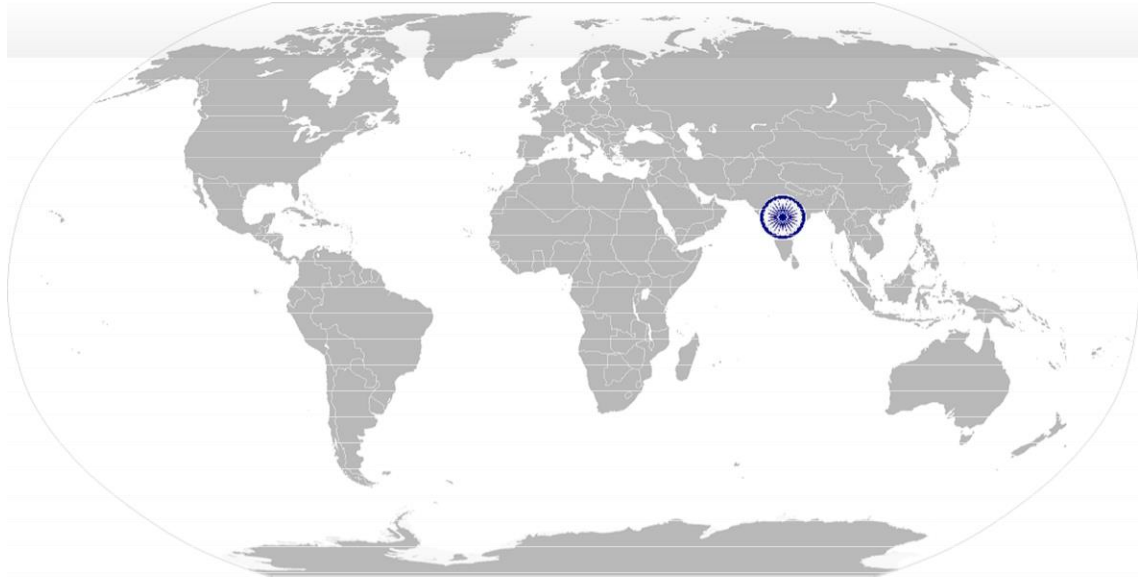
	<p>underneath</p> <p>KB7. Check and record whether the salt pellets fill at least half the tank</p> <p>KB8. Test for total hardness</p> <p>KB9. Collect a sample of water at the water softener output</p> <p>KB10. Use an EDTA (Ethylenediaminetetraacetic acid) test or dip-and-read test strips to test for total hardness by measuring the calcium carbonate concentration</p>
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	The user/ individual on the job needs to know and understand how to: SA1. Record and report the faults
	Reading Skills
	The user/individual on the job needs to know and understand how to: SA2. Follow instructions on the user manual/brochure of the machine
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to: SA3. Communicate any unusual findings regarding machine components or sterilisation to the bio-medical engineer or senior technician
B. Professional Skills	Decision Making
	The user/individual on the job needs to: SB1. Identify components which need to be replaced SB2. Know which type of observations regarding water treatment plant-care need to be reported immediately
	Plan and Organize
	The user/individual on the job needs to: SB3. Plan and organise the checking and maintenance as per the schedule
	Customer Centricity
	The user/individual on the job needs to know: SB4. The importance of maintenance to prevent the spread of infection
	Problem Solving
	The user/individual on the job needs to know and understand how to: SB5. Handle any accidental spillage or contamination of the unit
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB6. Perform procedure in a meticulous manner
Critical Thinking	
The user/individual on the job needs to know and understand how to: SB7. Apply, analyse, and evaluate the information gathered from observation, experience, reasoning, or communication, as a guide to belief and action	

HSS/N2713

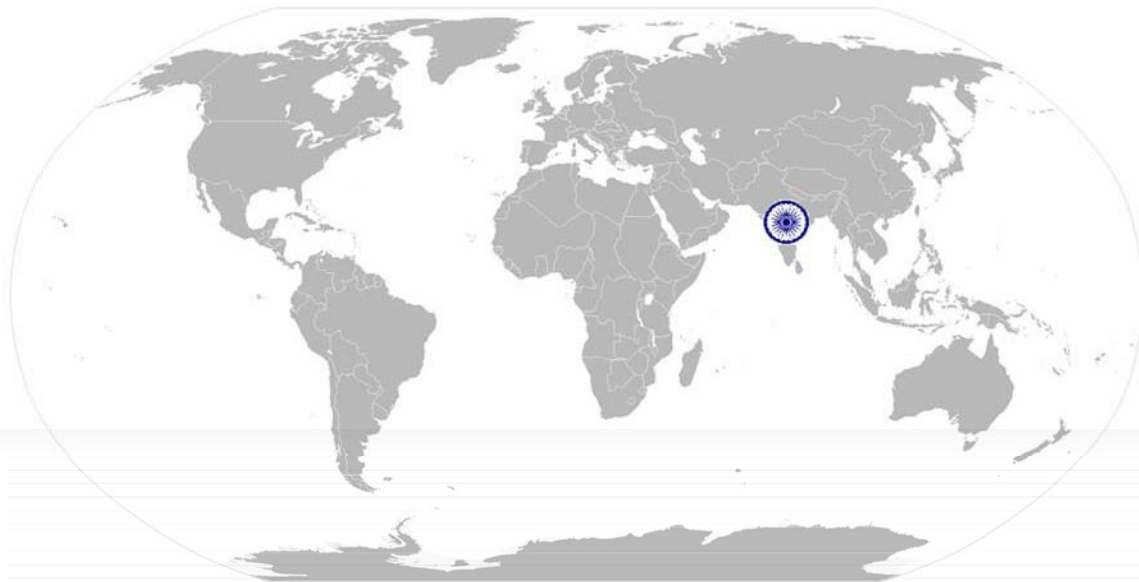
Operate and maintain water treatment plant

NOS Version Control

NOS Code	HSS/2713		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	22/05/13
Occupation	Dialysis Technician	Next review date	24/12/16



National Occupational Standard



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/N9603

Act within the limits of one’s competence and authority

National Occupational Standard

Unit Code	HSS/N9603
Unit Title	Act within the limits of one’s competence and authority
(Task)	Act within the limits of one’s competence and authority
Description	<p>This OS unit is about recognizing the boundaries of the role and responsibilities and working within the level of competence in accordance with legislation, protocols and guidelines</p> <p>This is applicable to all Allied Health Professionals working in an organised, regulated environment</p>
Scope	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Acting within the limit of one’s competence and authority; <ul style="list-style-type: none"> Knowing one’s job role Knowing one’s job responsibility Recognizing the job role and responsibilities of co workers <p>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’.</p>
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Adhere to legislation, protocols and guidelines relevant to one’s role and field of practice</p> <p>PC2. Work within organisational systems and requirements as appropriate to one’s role</p> <p>PC3. Recognise the boundary of one’s role and responsibility and seek supervision when situations are beyond one’s competence and authority</p> <p>PC4. Maintain competence within one’s role and field of practice</p> <p>PC5. Use relevant research based protocols and guidelines as evidence to inform one’s practice</p> <p>PC6. Promote and demonstrate good practice as an individual and as a team member at all times</p> <p>PC7. Identify and manage potential and actual risks to the quality and safety of practice</p> <p>PC8. Evaluate and reflect on the quality of one’s work and make continuing improvements</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. The relevant legislation, standards, policies, and procedures followed in the organization</p> <p>KA2. The medical procedures and functioning of required medical equipment</p> <p>KA3. Role and importance of assisting other healthcare providers in delivering care</p>

HSS/N9603

Act within the limits of one's competence and authority

<p>B. Technical Knowledge</p>	<p>The user/individual on the job needs to know and understand:</p> <p>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:</p> <ul style="list-style-type: none"> ○ Working outside the boundaries of competence and authority ○ Not keeping up to date with best practice ○ Poor communication ○ Insufficient support ○ Lack of resources <p>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 enable one to recognise one's own limitations and when one should seek support from 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 the way one work as an individual or part of a team</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>The user/ individual on the job needs to know and understand how to:</p> <p>SA1. Document reports, task lists, and schedules SA2. Prepare status and progress reports SA3. Record daily activities SA4. Update other co-workers</p> <p>Reading Skills</p> <p>The user/individual on the job needs to know and understand how to:</p> <p>SA5. Read about changes in legislations and organizational policies SA6. Keep updated with the latest knowledge</p>
	<p>Oral Communication (Listening and Speaking skills)</p>

HSS/N9603

Act within the limits of one's competence and authority

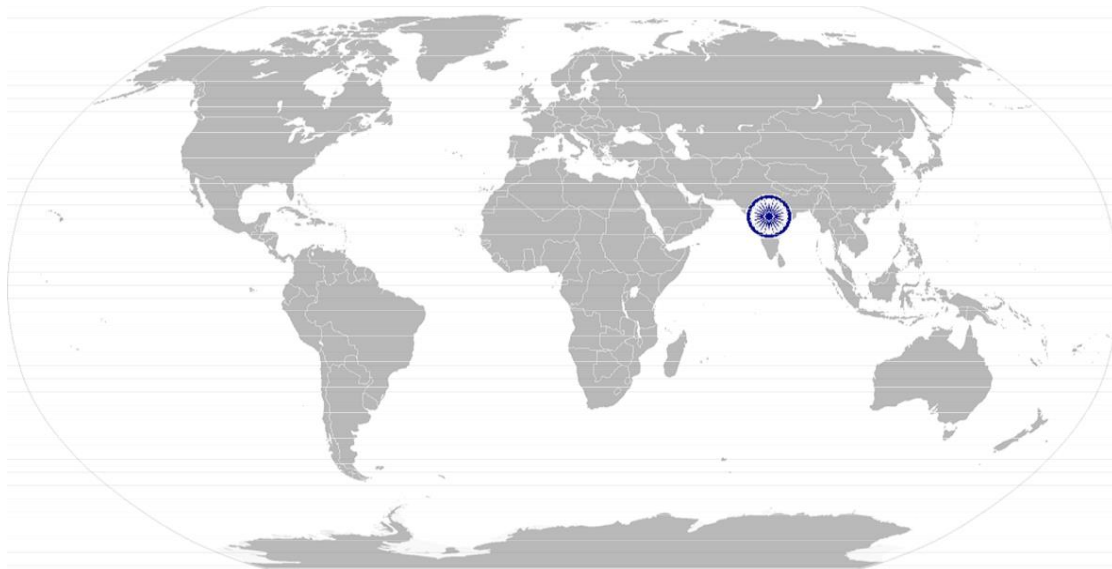
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SA7. Discuss task lists, schedules, and work-loads with co-workers</p> <p>SA8. Give clear instructions to patients and co-workers</p> <p>SA9. Keep patient informed about progress</p> <p>SA10. Avoid using jargon, slang or acronyms when communicating with a patient</p>
B. Professional Skills	Decision Making
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB1. Make decisions pertaining to the concerned area of work in relation to job role</p>
	Plan and Organize
	Not applicable
	Customer Centricity
	<p>The user/individual on the job needs to know and understand how to:</p> <p>SB2. Communicate effectively with patients and their family, physicians, and other members of the health care team</p> <p>SB3. Be responsive and listen empathetically to establish rapport in a way that promotes openness on issues of concern</p> <p>SB4. Be sensitive to potential cultural differences</p> <p>SB5. Maintain patient confidentiality</p> <p>SB6. Respect the rights of the patient(s)</p>
	Problem Solving
	Not applicable
	Analytical Thinking
	Not applicable
Critical Thinking	
Not applicable	

HSS/N9603

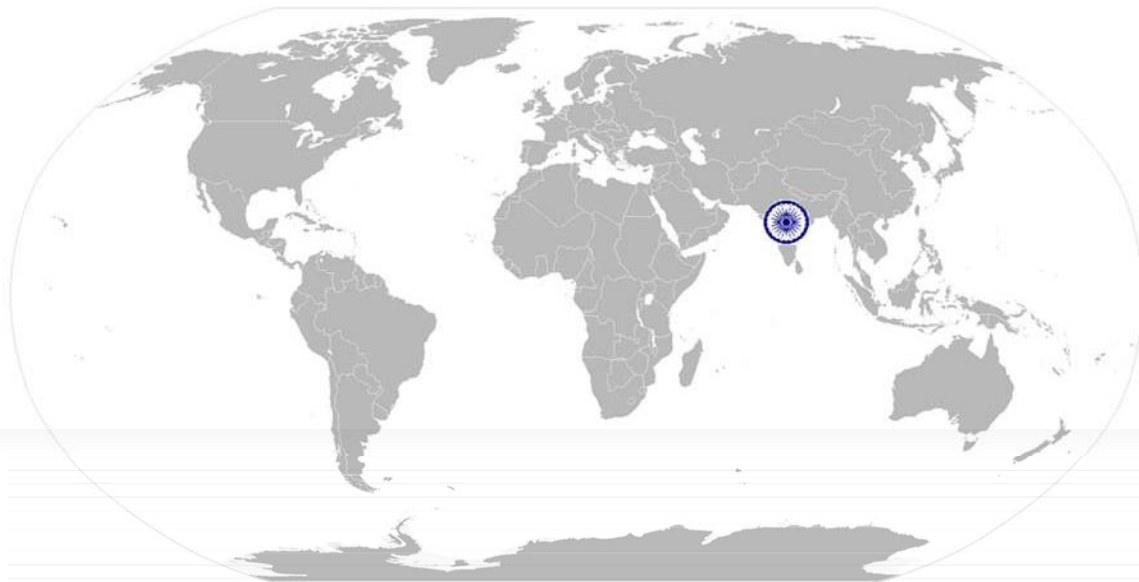
Act within the limits of one's competence and authority

NOS Version Control

NOS Code	HSS/N9603		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	24/07/13
Occupation		Next review date	24/12/16



National Occupational Standard



Overview

This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health Professional to work effectively with other people and integrate one's work the work of other people

HSS/N9604

Work effectively with others

National Occupational Standard

Unit Code	HSS/N9604
Unit Title	Work effectively with others
Description	This OS unit is about working effectively with other people who can be part of the immediate team, organisation or external to the team or organisation This OS unit applies to all Allied health professionals working in a team or collaborative environment
Scope	This unit/task covers the following: <ul style="list-style-type: none"> Working with other people to meet requirements , Sharing information with others to enable efficient delivery of work , Communicating with other team members and people internal or external to the organisation
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	To be competent, the user/ individual on the job must be able to: PC1. Communicate with other people clearly and effectively PC2. Integrate one's work with other people's work effectively PC3. Pass on essential information to other people on timely basis PC4. Work in a way that shows respect for other people PC5. Carry out any commitments made to other people PC6. Reason out the failure to fulfil commitment PC7. Identify any problems with team members and other people and take the initiative to solve these problems PC8. Follow the organisation's policies and procedures
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	To be competent the user/ individual on the job needs to know and understand: KA1. The people who make up the team and how they fit into the work of the organisation KA2. The responsibilities of the team and their importance to the organisation KA3. The business, mission, and objectives of the organisation KA4. Effective working relationships with the people external to the team, with which the individual works on a regular basis KA5. Procedures in the organisation to deal with conflict and poor working relationships
B. Technical Knowledge	To be competent the user/ individual on the job needs to know and understand: KB1. The importance of communicating clearly and effectively with other people and how to do so face-to-face, by telephone and in writing KB2. The essential information that needs to be shared with other people KB3. The importance of effective working relationships and how these can contribute towards effective working relationships on a day-to-day basis KB4. The importance of integrating ones work effectively with others KB5. The types of working relationships that help people to work well together and the types of relationships that need to be avoided KB6. The types of opportunities an individual may seek out to improve relationships with others KB7. How to deal with difficult working relationships with other people to sort out

HSS/N9604

Work effectively with others

	problems
Skills (S)	
A. Core Skills/ Generic Skills	Writing Skills
	To be competent, the user / individual on the job needs to know and understand how to: SA1. Communicate essential information in writing SA2. Write effective communications to share information with the team members and other people outside the team
	Reading Skills
	To be competent, the user/individual on the job needs to know and understand how to: SA3. Read and understand essential information
	Oral Communication (Listening and Speaking skills)
	To be competent, the user/ individual on the job needs to know and understand how to: SA4. Communicate essential information to colleagues face-to-face or through telecommunications SA5. Question others appropriately in order to understand the nature of the request or compliant
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 work
	Plan and Organize
	To be competent, the user/ individual on the job needs to know and understand how to: SB2. Plan and organise files and documents
	Customer Centricity
	To be competent, the user/ individual on the job needs to know and understand how to: 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 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 problems while working with others and devise effective solutions
	Analytical Thinking
Not applicable	

HSS/N9604

Work effectively with others

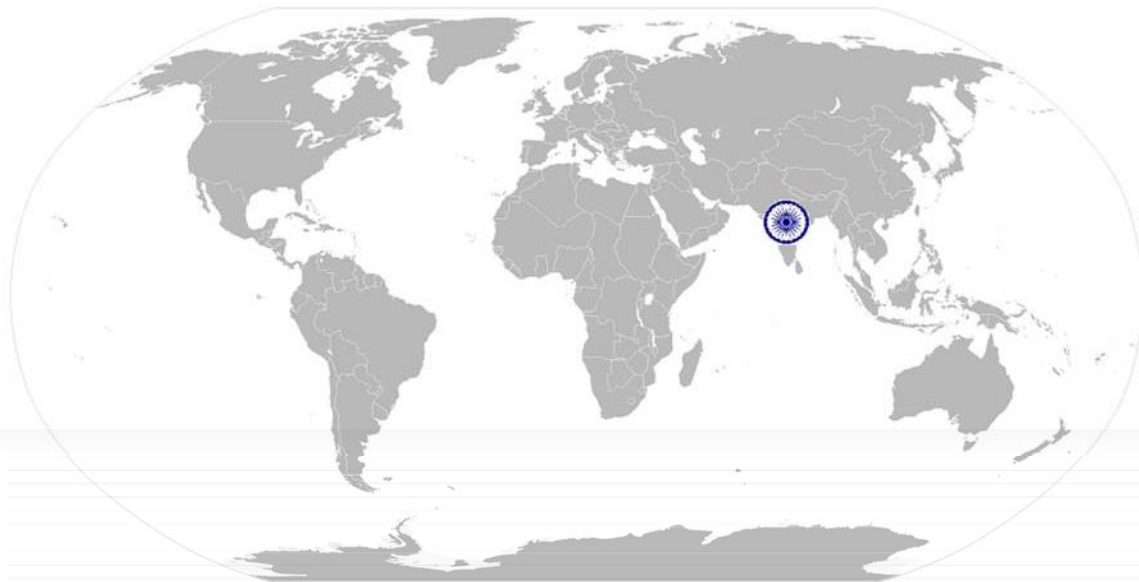
	Critical Thinking
	Not applicable

NOS Version Control

NOS Code	HSS/N9604		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	24/07/13
Occupation		Next review date	24/12/16



National Occupational Standard



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/N9606

Maintain a safe, healthy, and secure working environment

National Occupational Standard

Unit Code	HSS/N9606
Unit Title	Maintain a safe, healthy, and secure working environment
(Task)	
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
Scope	This unit covers the following: <ul style="list-style-type: none"> Complying the health, safety and security requirements and procedures for Workplace Handling any hazardous situation with safely, competently and within the limits of authority Reporting any hazardous situation and breach in procedures to ensure a safe, healthy, secure working environment
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	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 Understanding (K)	
A. Organizational Context (Knowledge of the company / organization 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

HSS/N9606

Maintain a safe, healthy, and secure working environment

<p>B. Technical Knowledge</p>	<p>To be competent, the user / individual on the job needs to know and understand:</p> <p>KB1. Requirements of health, safety and security in workplace</p> <p>KB2. How to create safety records and maintaining them</p> <p>KB3. The importance of being alert to health, safety, and security hazards in the work environment</p> <p>KB4. The common health, safety, and security hazards that affect people working in an administrative role</p> <p>KB5. How to identify health, safety, and security hazards</p> <p>KB6. The importance of warning others about hazards and how to do so until the hazard is dealt with</p>
<p>Skills (S)</p>	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p> <p>To be competent, the user/ individual on the job needs to know and understand how to:</p> <p>SA1. Report and record incidents</p> <p>Reading Skills</p> <p>To be competent, the user/ individual on the job needs to know and understand how to:</p> <p>SA2. Read and understand company policies and procedures</p>
	<p>Oral Communication (Listening and Speaking skills)</p> <p>To be competent, the user/ individual on the job needs to know and understand how to:</p> <p>SA3. Clearly report hazards and incidents with the appropriate level of urgency</p>
<p>B. Professional Skills</p>	<p>Decision Making</p> <p>To be competent, the user/ individual on the job needs to know and understand how to:</p> <p>SB1. Make decisions pertaining to the area of work</p> <p>Plan and Organize</p> <p>To be competent, the user / individual on the job needs to know and understand how to:</p> <p>SB2. Plan for safety of the work environment</p> <p>Customer Centricity</p> <p>To be competent, the user / individual on the job needs to know and understand:</p> <p>SB3. Communicate effectively with patients and their family, physicians, and other members of the health care team</p> <p>SB4. Be capable of being responsive, listen empathetically to establish rapport in a way that promotes openness on issues of concern</p> <p>Problem Solving</p> <p>To be competent, the user/ individual on the job needs to know and understand how to:</p> <p>SB8. Identify hazards, evaluate possible solutions and suggest effective solutions</p>

HSS/N9606

Maintain a safe, healthy, and secure working environment

	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

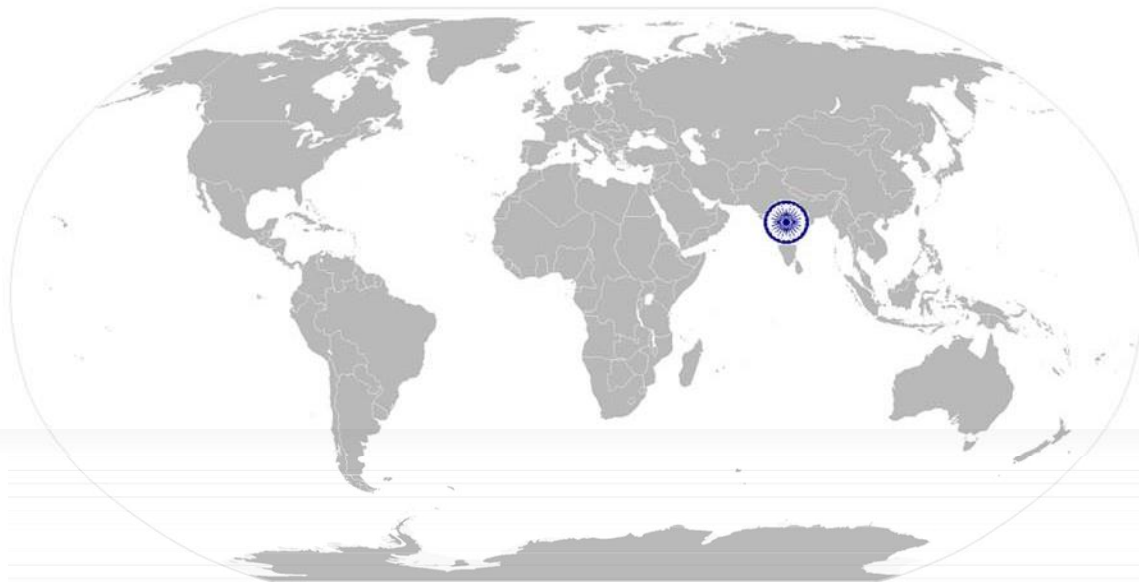
NOS Version Control

NOS Code	HSS/N9606		
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Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	24/07/13
Occupation		Next review date	24/12/16

HSS/N9609

Follow biomedical waste disposal protocols

National Occupational Standard



Overview

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

HSS/N9609

Follow biomedical waste disposal protocols

National Occupational Standard

Unit Code	HSS/N9609
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	<p>This unit/task covers the following:</p> <ul style="list-style-type: none"> Classification of the Waste Generated, Segregation of Biomedical Waste ,Proper collection and storage of Waste <p>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]'</p>
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	<p>To be competent, the user/individual on the job must be able to:</p> <p>PC1. Follow the appropriate procedures, policies and protocols for the method of collection and containment level according to the waste type</p> <p>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</p> <p>PC3. Segregate the waste material from work areas in line with current legislation and organisational requirements</p> <p>PC4. Segregation should happen at source with proper containment, by using different color coded bins for different categories of waste</p> <p>PC5. Check the accuracy of the labelling that identifies the type and content of waste</p> <p>PC6. Confirm suitability of containers for any required course of action appropriate to the type of waste disposal</p> <p>PC7. Check the waste has undergone the required processes to make it safe for transport and disposal</p> <p>PC8. Transport the waste to the disposal site, taking into consideration its associated risks</p> <p>PC9. Report and deal with spillages and contamination in accordance with current legislation and procedures</p> <p>PC10. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, local policies and protocols</p>
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and	<p>The user/individual on the job needs to know and understand:</p> <p>KA1. Basic requirements of the health and safety and other legislations and regulations that apply to the organization</p> <p>KA2. Person(s) responsible for health, safety, and security in the organization</p> <p>KA3. Relevant up-to-date information on health, safety, and security that applies to the organization</p> <p>KA4. Organization's emergency procedures and responsibilities for handling</p>

HSS/N9609

Follow biomedical waste disposal protocols

its processes)	hazardous situations
B. Technical Knowledge	<p>The user/individual on the job needs to know and understand:</p> <p>KB1. How to categorise waste according to national, local and organisational guidelines</p> <p>KB2. The appropriate approved disposal routes for waste</p> <p>KB3. The appropriate containment or dismantling requirements for waste and how to make the waste safe for disposal</p> <p>KB4. The importance to adhere to the organisational and national waste management principles and procedures</p> <p>KB5. The hazards and risks associated with the disposal and the importance of risk assessments and how to provide these</p> <p>KB6. The personal protective equipment required to manage the different types of waste generated by different work activities</p> <p>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</p> <p>KB8. The required actions and reporting procedures for any accidents, spillages and contamination involving waste</p> <p>KB9. The requirements of the relevant external agencies involved in the transport and receipt of your waste</p> <p>KB10. The importance of segregating different types of waste and how to do this</p> <p>KB11. The safe methods of storage and maintaining security of waste and the permitted accumulation times</p> <p>KB12. The methods for transporting and monitoring waste disposal and the appropriateness of each method to a given scenario</p> <p>KB13. How to report any problems or delays in waste collection and whereto seek advice and guidance</p> <p>KB14. The importance of the organisation monitoring and obtaining an assessment of the impact the waste has on the environment</p> <p>KB15. The current national legislation, guidelines, local policies and protocols which affect work practice</p> <p>KB16. The policies and guidance that clarify your scope of practice, accountabilities and the working relationship between yourself and others</p>
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 for managing biomedical waste
	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

HSS/N9609

Follow biomedical waste disposal protocols

	The user/individual on the job needs to know and understand how to: SB1. Make decisions pertaining to the area of work SB2. Exhibit commitment to the organization and exert effort and perseverance
	Plan and Organize
	The user/individual on the job needs to know and understand how to: SB3. Organize 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 clean
	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 of waste management
	Analytical Thinking
	The user/individual on the job needs to know and understand how to: SB8. Analyse the seriousness of hazards and proper waste management
	Critical Thinking
The user/individual on the job needs to know and understand how to: SB9. Evaluate opportunities to improve health, safety and security SB10. Show understanding and empathy for others	

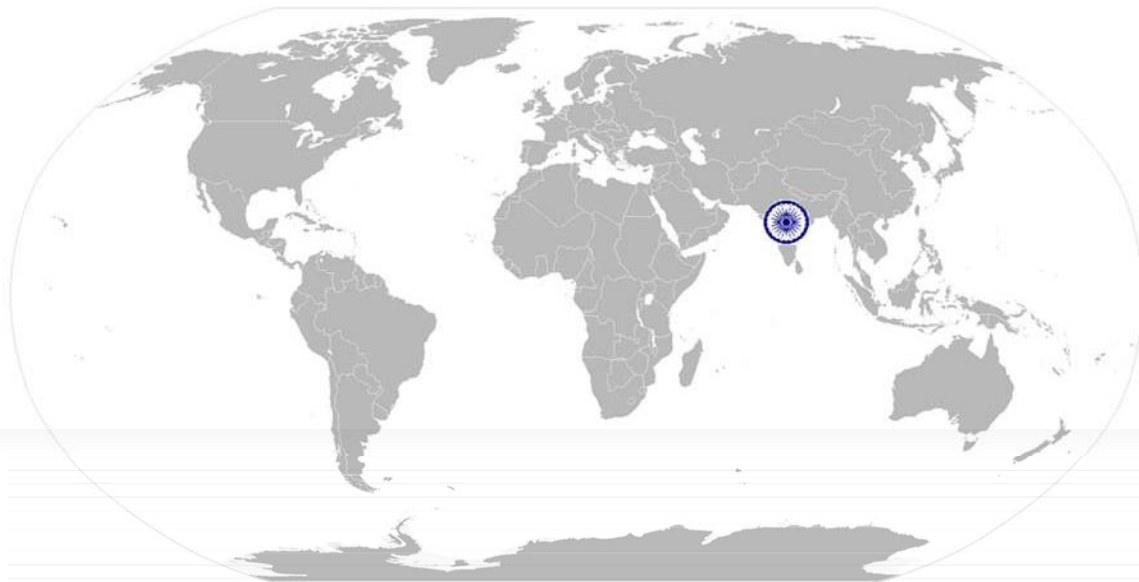
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NOS Code	HSS/N9609		
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HSS/N9611

Monitor and assure quality

National Occupational Standard



Overview

This Occupational Standard describes the knowledge, understanding, skills required of an Allied Health professional to monitor and assure quality

HSS/N9611

Monitor and assure quality

National Occupational Standard

Unit Code	HSS/N9611
Unit Title	Monitor and assure quality
(Task)	
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: <ul style="list-style-type: none"> Monitor treatment process/outcomes , Identify problems in treatment process/outcomes , Solve treatment process/outcome problems , Attend class/read publications to continue industry education , Identify needs and expectations of patient/health care professionals
Performance Criteria(PC) w.r.t. the Scope	
Element	Performance Criteria
	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 dental industry PC4. Read Dental hygiene, dental and 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 Understanding (K)	
A. Organizational Context (Knowledge of the company / organization and its processes)	The user/individual on the job needs to know and understand: KA1. Basic requirements of the health and safety and other legislations and regulations that apply to the organisation 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
B. Technical Knowledge	The user/individual on the job needs to know and understand how to: KB1. Evaluate treatment goals, process and outcomes KB2. Identify problems/deficiencies in dental hygiene treatment goals, processes and outcomes KB3. Accurately identify problems in dental hygiene care KB4. Conduct research KB5. Select and implement proper hygiene interventions KB6. Obtain informed consent KB7. Conduct an honest self-evaluation to identify personal and professional

HSS/N9611

Monitor and assure quality

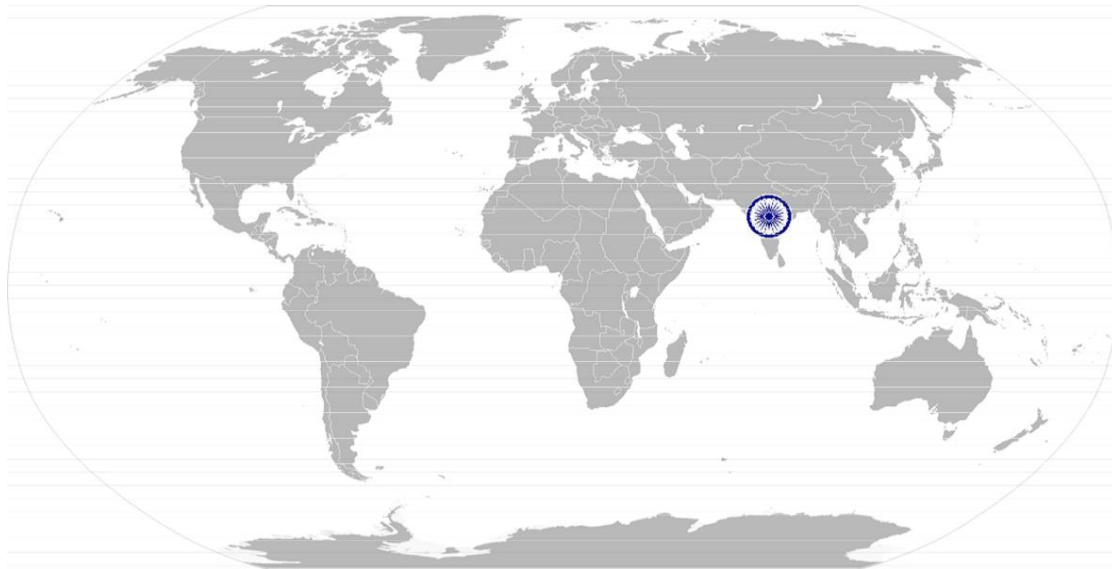
	<p>strengths and weaknesses</p> <p>KB8. Access and interpret medical, and scientific literature</p> <p>KB9. Apply human needs/motivational theory</p> <p>KB10. Provide thorough and efficient individualised care</p> <p>KB11. Employ methods to measure satisfaction</p>
Skills (S)	
A. Core Skills/ Generic 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
	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 area of work SB2. Exhibit commitment to the organisation and exert effort and perseverance
	Plan and Organize
	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 SB1. Recommend and implement plan of action
	Customer Centricity
	The user/individual on the job needs to know and understand: SB2. How to make exceptional effort to meet patient needs and resolve conflict to patients 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	

HSS/N9611

Monitor and assure quality

NOS Version Control

NOS Code	HSS/N9611		
Credits (NSQF)	TBD	Version number	1.0
Industry	Health	Drafted on	12/05/13
Industry Sub-sector	Allied Health and Paramedics	Last reviewed on	24/07/13
Occupation		Next review date	24/12/16



CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role	Dialysis Technician
Qualification Pack Code	HSS/Q2701
Sector Skill Council	Healthcare Sector Skill Council

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria
5. To pass the Qualification Pack, every trainee should score as per assessment grid.
6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

Skills Practical and Viva (80% weightage)	
	Marks Allotted
Grand Total-1 (Subject Domain)	400
Grand Total-2 (Soft Skills and Communication)	100
Grand Total-(Skills Practical and Viva)	500
Passing Marks (80% of Max. Marks)	400
Theory (20% weightage)	
	Marks Allotted
Grand Total-1 (Subject Domain)	80
Grand Total-2 (Soft Skills and Communication)	20
Grand Total-(Theory)	100
Passing Marks (50% of Max. Marks)	50

Grand Total-(Skills Practical and Viva + Theory)		600			
Overall Result		Criteria is to pass in both theory and practical individually. If fail in any one of them, then candidate is fail			
Detailed Break Up of Marks		Skills Practical & Viva			
Subject Domain		Pick any 2 NOS each of 200 marks totaling 400			
Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (400)	Out Of	Marks Allocation	
				Viva	Skills Practical
1.HSS / N 2701 : Collect and assess the patient's chart and vitals	PC1. Read and understand the patients' reports	200	40	20	20
	PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate		40	20	20
	PC3. Recognise the levels of vital parameters under which dialysis can be performed safely		50	20	30
	PC4. Identify and manage potential and actual risks to the quality and safety of work		30	10	20
	PC5. Maintain competence within one's role and field of practice		20	10	10
	PC6. Evaluate and reflect on the quality of one's work and make continuing improvements		20	10	10
			200	90	110
HSS / N 2702 : Manage dialysis machine set up and assemble the extracorporeal circuit	PC1. Needs to know and understand the mechanics and functioning of all parts of the dialysis machine being used	200	50	20	30
	PC2. Should know how to calibrate the machine without error		50	20	30
	PC3. Should ensure that the dialysis unit has been sterilised after previous use		40	10	30
	PC4. Should ensure that all the components required are adequately present		30	10	20

	PC5. Should know how to assemble and check the extracorporeal circuit parts i.e. the patient connectors, Dialyzer connectors, Drip chamber and bubble trap, Blood pump segment, Heparin infusion line, and saline infusion line		30	10	20
			200	70	130
3.HSS / N 2703 : Prepare and position the patient for treatment	PC1. Maintain patients' privacy	200	30	10	20
	PC2. Drape the patient such that it facilitates connecting the patient to the dialysis unit		30	10	20
	PC3. Explain the need to dress and be placed in particular position for dialysis to patient		40	20	20
	PC4. Perform actions gently to avoid causing pain specially taking care to not disturb any catheters, IV lines already present		50	20	30
	PC5. Keep the patient in a comfortable posture		30	10	20
	PC6. Provide the appropriate linen including covering sheet depending on the patient (male, female, child) and should know from where to obtain the same		20	0	20
			200	70	130
.HSS / N 2704 : Connect patient to the dialysis machine	PC1. Use standard protocols for inserting IV lines and making connections to prevent infection and reduce discomfort to the patient	200	50	20	30
	PC2. Understand how to utilise existing catheters for performing dialysis		50	20	30
	PC3. Be aware of the protocol of starting the dialysis		50	20	30
	PC4. Minimise inconvenience and pain for the patient while performing the procedure		50	20	30
			200	80	120
5.HSS / N 2705 : Monitor technical/ clinical vitals during the	PC1. Understand the various indicators, alarms and sensors of the dialysis machine	200	50	20	30

treatment	PC2. Know the corrective steps to be taken when a particular alarm goes off		50	20	30
	PC3. Be alert and quick in his/her responses		50	20	30
	PC4. Know whom and how to inform in case of medical emergency		50	30	20
			200	90	110
6.HSS/ N 2706: Unhook patient from the machine	PC1. Know when dialysis is completed	200	50	20	30
	PC2. Detach all connections between patient and unit		50	10	40
	PC3. Carefully remove IV cannulas with minimum discomfort to patient		50	10	40
	PC4. Suitably dress the canola/ catheter to keep it sterile and pain- free for future use if the doctor/nurse instructs		30	10	20
	PC5. Understand needs of the patient and help them to be comfortable		20	10	10
			200	60	140
HSS / N 2707 : Record the treatment	PC1. Follow the right format for documenting the dialysis on the patient's chart	200	50	20	30
	PC2. Record the components/ constituents and their quantities used		50	20	30
	PC3. Understand the importance of documenting the procedure on the patient's chart		50	30	20
	PC4. Record the quantity and type of constituents like dialysate, acid mixture etc. used during the process		50	30	20
			200	100	100
HSS/ N 2708: Conduct pre and post dialysis evaluation	PC1. Read and understand the patients' reports	200	30	10	20
	PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate		30	10	20
	PC3. Recognise the levels of vital parameters under which dialysis can be performed safely		40	15	25
	PC4. Be alert in noticing any change or distress in the patient during or after dialysis		40	10	30

	PC5. Communicate effectively with patient, doctors and nurses to enable quick remedial action		30	10	20
	PC6. Document the changes as per protocol		30	15	15
			200	70	130
HSS/ N 2709: Maintain and disinfect the delivery system	PC1. Clean up any spillage	200	50	25	25
	PC2. Know when the dialysate, dialyzer or other constituents need to be replaced		50	20	30
	PC3. Follow standard sterilisation and cleaning procedure for the unit		30	10	20
	PC4. Disinfect dialysis machine according to the manufacturer's recommendations		40	20	20
	PC5. The dialysate circuit should be exposed to disinfectant		30	10	20
			200	85	115
HSS/ N 2710: Evaluate and prepare the site for cannulation	PC1. Describe the three main types of vascular access (fistulae, grafts and catheters)	200	10	5	5
	PC2. Identify the predialysis assessments for all types of vascular access.		10	5	5
	PC3. Describe the methods of needle insertion for AVFs and grafts.		10	5	5
	PC4. Describe the predialysis assessment, accessing procedure, exit site care, and monitoring of catheters		10	5	5
	PC5. Describe how fistulae are created and the pros and cons of these		10	5	5
	PC6. Assess the maturity of a fistula		5	3	2
	PC7. Describe how grafts are created and the pros and cons of these		10	7	3
	PC8. Describe how catheters are placed and the various methods of catheter placement (both short and long term)		10	5	5
	PC9. Describe the pros and cons of catheters		5	3	2
	PC10. Describe the types of catheter and port/catheter devices		10	5	5
	PC11. Assess a fistula or graft prior to each treatment by inspecting (looking for infection, steal syndrome, stenosis, etc.), auscultating (listening for bruit and deep access location),		10	5	5

	and palpating (feeling for skin temperature, thrill, stenosis, vein diameter etc.) the access				
	PC12. Assess the blood flow before inserting a needle into the fistula/ graft		5	2	3
	PC13. Assess catheters prior to dialysis treatment		5	2	3
	PC14. Describe the considerations for accessing catheters and cleansing exit sites		5	2	3
	PC15. Describe the various methods for preparing a patient's skin for cannulation		5	2	3
	PC16. Prepare a patient's skin for cannulation using anti-bacterial solutions		10	4	6
	PC17. Apply a tourniquet		5	1	4
	PC18. Select a site for cannulation and insert a needle into the patient's vein		5	1	4
	PC19. Understand the concept of Antegrade and retrograde needle direction		10	8	2
	PC20. Understand how to rotate cannulation sites for fistulae and grafts		10	3	7
	PC21. Secure needles after insertion		10	4	6
	PC22. Describe common complications that occur due to: a. Fistulae, grafts and catheters b) b. Poor needle site rotation, c) c. Dialysis		10	5	5
	PC23. Monitor catheters during the treatments		10	3	7
	PC24. Describe post-dialysis care for fistulae, catheters and grafts		10	5	5
			200	95	105
HSS/ N 2711: Respond to dialysis related emergencies in patient and equipment	PC1. Clean up any spillage	200	30	10	20
	PC2. Know when the dialysate, dialyzer or other constituents need to be replaced		50	30	20
	PC3. Follow standard sterilisation and cleaning procedure for the unit		30	10	20
	PC4. Disinfect dialysis machine according to the manufacturer's recommendations		50	20	30

	PC5. The dialysate circuit should be exposed to disinfectant		40	10	30
			200	80	120
HSS/ N 2712: Reprocess dialyser treatment guidelines.	PC1. Clean up any spillage	200	30	10	20
	PC2. Know when the dialysate, dialyzer or other constituents need to be replaced		50	30	20
	PC3. Follow standard sterilisation and cleaning procedure for the unit		30	10	20
	PC4. Disinfect dialysis machine according to the manufacturer's recommendations		50	20	30
	PC5. The dialysate circuit should be exposed to disinfectant		40	10	30
			200	80	120
HSS/ N 2713: Operate and maintain water treatment plant	PC1. Check the incoming water temperature	200	10	2	8
	PC2. Look around the RO(reverse osmosis) system for any visible fluid leaks		20	5	15
	PC3. Check and record the pressure gauge		20	5	15
	PC4. Measure and record the pressures before and after the endotoxin filter		10	5	5
	PC5. Record all checks, including time and initials, on the Daily Dialysis Water Equipment Monitoring Log Sheet		20	5	15
	PC6. Check and record the pump, reject, and product pressures		10	5	5
	PC7. Check and record the recycle, waste, and permeate flow rates		10	5	5
	PC8. Check and record the inlet and permeate conductivities		10	5	5
	PC9. Read the RO monitor and record the conductivity and percent rejection		10	2	8
	PC10. Check and record the pump run hours		10	5	5
	PC11. Check the multi-media sediment filter		10	5	5
	PC12. Measure and record the pressures before and after the multi-media filter		10	5	5
	PC13. Check the water softener		10	2	8

	PC14. Measure and record the pressures before and after the water softener		10	5	5
	PC15. Check and record the setting for the regeneration timer. The timer should be set to activate when the facility, especially the RO, is not operating		20	5	5
	PC16. Check the brine tank		10	2	8
	Total		200	70	130
HSS/ N 9610 (Follow infection control policies and procedures)	PC1. Perform the standard precautions to prevent the spread of infection in accordance with organisation requirements	200	5	0	5
	PC2. Perform the additional precautions when standard precautions alone may not be sufficient to prevent transmission of infection		5	0	5
	PC3. Minimise contamination of materials, equipment and instruments by aerosols and splatter		5	5	0
	PC4. Identify infection risks and implement an appropriate response within own role and responsibility		20	10	10
	PC5. Document and report activities and tasks that put patients and/or other workers at risk		5	0	5
	PC6. Respond appropriately to situations that pose an infection risk in accordance with the policies and procedures of the organization		5	0	5
	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
	PC9. Place appropriate signs when and where appropriate		20	10	10
	PC10. Remove spills in accordance with the policies and procedures of the organization		5	0	5
	PC11. Maintain hand hygiene by washing hands before and after patient contact and/or after any activity likely to cause contamination		5	0	5
	PC12. Follow hand washing procedures		5	0	5
	PC13. Implement hand care procedures		5	0	5
	PC14. Cover cuts and abrasions with water-proof dressings and change as necessary		5	5	0
	PC15. Wear personal protective clothing and equipment that complies with Indian Standards, and is appropriate for the intended		5	0	5

use			
PC16. Change protective clothing and gowns/aprons daily, more frequently if soiled and where appropriate, after each patient contact	5	0	5
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 when handling waste	5	0	5
PC21. Separate waste at the point where it has been generated and dispose of into waste containers that are colour coded and identified	5	0	5
PC22. Store clinical or related waste in an area that is accessible only to authorised persons	5	5	0
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	5	0	5
PC24. Dispose of waste safely in accordance with policies and procedures of the organisation and legislative requirements	5	5	0
PC25. Wear personal protective clothing and equipment during cleaning procedures	5	0	5
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 solution before and after each session or when visibly soiled	5	0	5
PC28. Decontaminate equipment requiring special processing in accordance with quality management systems to ensure full compliance with cleaning, disinfection and sterilisation protocols	5	0	5
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 field from both parts each carrying 50 marks totaling 100		
Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (100)	Out Of	Marks Allocation	
				Viva	Observation/ Role Play
Part 1 (Pick one field randomly carrying 50 marks)					
1. Attitude					
HSS/ N 9603 (Act within the limits of one's competence and authority)	PC1. Adhere to legislation, protocols and guidelines relevant to one's role and field of practice	50	5	2	3
	PC2. Work within organisational systems and requirements as appropriate to one's role		5	2	3
	PC3. Recognise the boundary of one's role and responsibility and seek supervision when situations are beyond one's competence and authority		10	5	5
	PC4. Maintain competence within one's role and field of practice		5	3	2
	PC5. Use relevant research based protocols and guidelines as evidence to inform one's practice		5	2	3
	PC6. Promote and demonstrate good practice as an individual and as a team member at all times		10	5	5
	PC7. Identify and manage potential and actual risks to the quality and safety of practice		5	3	2
	PC8. Evaluate and reflect on the quality of one's work and make continuing improvements		5	2	3
			50	24	26
Attitude Total		50			
Part 2 (Pick one field as per NOS marked carrying 50 marks)					
1. Team Work					
HSS/ N 9604 (Work effectively with others)	PC1. Communicate with other people clearly and effectively	50	3	0	3
	PC2. Integrate one's work with other people's work effectively		3	0	3

	PC3. Pass on essential information to other people on timely basis		3	0	3
	PC4. Work in a way that shows respect for other people		3	0	3
	PC5. Carry out any commitments made to other people		6	6	0
	PC6. Reason out the failure to fulfil commitment		6	6	0
	PC7. Identify any problems with team members and other people and take the initiative to solve these problems		16	8	8
	PC8. Follow the organisation's policies and procedures		10	4	6
			50	24	26
2. Safety management					
HSS/ N 9606 (Maintain a safe, healthy, and secure working environment)	PC1. Identify individual responsibilities in relation to maintaining workplace health safety and security requirements	50	6	2	4
	PC2. Comply with health, safety and security procedures for the workplace		4	0	4
	PC3. Report any identified breaches in health, safety, and security procedures to the designated person		4	3	1
	PC4. Identify potential hazards and breaches of safe work practices		6	4	2
	PC5. Correct any hazards that individual can deal with safely, competently and within the limits of authority		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 may get affected		6	4	2
	PC7. Follow the organisation's emergency procedures promptly, calmly, and efficiently		6	2	4
	PC8. Identify and recommend opportunities for improving health, safety, and security to the designated person		6	4	2
	PC9. Complete any health and safety records legibly and accurately		6	2	4
		50	25	25	
Waste Management					
HSS/ N 9609 (Follow biomedical waste disposal)	PC1. Follow the appropriate procedures, policies and protocols for the method of collection and containment level according to	50	6	2	4

protocols)	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		8	4	4
	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		4	2	2
	PC6. Confirm suitability of containers for any required course of action appropriate to the type of waste disposal		4	4	0
	PC7. Check the waste has undergone the required processes to make it safe for transport and disposal		4	4	0
	PC8. Transport the waste to the disposal site, taking into consideration its associated risks		4	4	0
	PC9. Report and deal with spillages and contamination in accordance with current legislation and procedures		4	4	0
	PC10. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, local policies and protocols		4	4	0
			50	32	18
4. Quality Assurance					
HSS/ N 9611: Monitor and assure quality	PC1. Conduct appropriate research and analysis	50	6	2	4
	PC2. Evaluate potential solutions thoroughly		8	4	4
	PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry		4	0	4
	PC4. Read Dental hygiene, dental and medical publications related to quality consistently and thoroughly		8	4	4

	PC5. Report any identified breaches in health, safety, and security procedures to the designated person		4	2	2
	PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority		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
	PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently		4	4	0
	PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person		4	4	0
	PC10. Complete any health and safety records legibly and accurately		4	4	0
	Total		50	32	18
Grand Total-2 (Soft Skills and Communication)		100			
Detailed Break Up of Marks					Theory
Subject Domain					Pick all NOS totalling 80 marks
National Occupational Standards (NOS)	Performance Criteria (PC)				Weightage
1.HSS / N 2701 : Collect and assess the patient's chart and vitals	PC1. Read and understand the patients' reports				5
	PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate				
	PC3. Recognise the levels of vital parameters under which dialysis can be performed safely				
	PC4. Identify and manage potential and actual risks to the quality and safety of work				
	PC5. Maintain competence within one's role and field of practice				
	PC6. Evaluate and reflect on the quality of one's work and make continuing improvements				

HSS / N 2702 : Manage dialysis machine set up and assemble the extracorporeal circuit	PC1. Needs to know and understand the mechanics and functioning of all parts of the dialysis machine being used	5
	PC2. Should know how to calibrate the machine without error	
	PC3. Should ensure that the dialysis unit has been sterilised after previous use	
	PC4. Should ensure that all the components required are adequately present	
	PC5. Should know how to assemble and check the extracorporeal circuit parts i.e. the patient connectors, Dialyzer connectors, Drip chamber and bubble trap, Blood pump segment, Heparin infusion line, and saline infusion line	
3.HSS / N 2703 : Prepare and position the patient for treatment	PC1. Maintain patients' privacy	10
	PC2. Drape the patient such that it facilitates connecting the patient to the dialysis unit	
	PC3. Explain the need to dress and be placed in particular position for dialysis to patient	
	PC4. Perform actions gently to avoid causing pain specially taking care to not disturb any catheters, IV lines already present	
	PC5. Keep the patient in a comfortable posture	
	PC6. Provide the appropriate linen including covering sheet depending on the patient (male, female, child) and should know from where to obtain the same	
.HSS / N 2704 : Connect patient to the dialysis machine	PC1. Use standard protocols for inserting IV lines and making connections to prevent infection and reduce discomfort to the patient	10
	PC2. Understand how to utilise existing catheters for performing dialysis	
	PC3. Be aware of the protocol of starting the dialysis	
	PC4. Minimise inconvenience and pain for the patient while performing the procedure	
5.HSS / N 2705 : Monitor technical/ clinical vitals during the treatment	PC1. Understand the various indicators, alarms and sensors of the dialysis machine	5
	PC2. Know the corrective steps to be taken when a particular alarm goes off	
	PC3. Be alert and quick in his/her responses	

	PC4. Know whom and how to inform in case of medical emergency	
6.HSS/ N 2706: Unhook patient from the machine	PC1. Know when dialysis is completed	5
	PC2. Detach all connections between patient and unit	
	PC3. Carefully remove IV cannulas with minimum discomfort to patient	
	PC4. Suitably dress the canola/ catheter to keep it sterile and pain-free for future use if the doctor/nurse instructs	
	PC5. Understand needs of the patient and help them to be comfortable	
HSS / N 2707 : Record the treatment	PC1. Follow the right format for documenting the dialysis on the patient's chart	5
	PC2. Record the components/ constituents and their quantities used	
	PC3. Understand the importance of documenting the procedure on the patient's chart	
	PC4. Record the quantity and type of constituents like dialysate, acid mixture etc. used during the process	
HSS/ N 2708: Conduct pre and post dialysis evaluation	PC1. Read and understand the patients' reports	5
	PC2. Take measurements of non-invasive blood pressure, body temperature, body weight, breathing rate and/or other vital parameters, as appropriate	
	PC3. Recognise the levels of vital parameters under which dialysis can be performed safely	
	PC4. Be alert in noticing any change or distress in the patient during or after dialysis	
	PC5. Communicate effectively with patient, doctors and nurses to enable quick remedial action	
	PC6. Document the changes as per protocol	
HSS/ N 2709: Maintain and disinfect the delivery system	PC1. Clean up any spillage	5
	PC2. Know when the dialysate, dialyzer or other constituents need to be replaced	
	PC3. Follow standard sterilisation and cleaning procedure for the unit	
	PC4. Disinfect dialysis machine according to the manufacturer's recommendations	
	PC5. The dialysate circuit should be exposed to disinfectant	
HSS/ N 2710: Evaluate and prepare the site for	PC1. Describe the three main types of vascular access (fistulae, grafts and catheters)	5

cannulation	PC2. Identify the predialysis assessments for all types of vascular access.
	PC3. Describe the methods of needle insertion for AVFs and grafts.
	PC4. Describe the predialysis assessment, accessing procedure, exit site care, and monitoring of catheters
	PC5. Describe how fistulae are created and the pros and cons of these
	PC6. Assess the maturity of a fistula
	PC7. Describe how grafts are created and the pros and cons of these
	PC8. Describe how catheters are placed and the various methods of catheter placement (both short and long term)
	PC9. Describe the pros and cons of catheters
	PC10. Describe the types of catheter and port/catheter devices
	PC11. Assess a fistula or graft prior to each treatment by inspecting (looking for infection, steal syndrome, stenosis, etc.), auscultating (listening for bruit and deep access location), and palpating (feeling for skin temperature, thrill, stenosis, vein diameter etc.) the access
	PC12. Assess the blood flow before inserting a needle into the fistula/ graft
	PC13. Assess catheters prior to dialysis treatment
	PC14. Describe the considerations for accessing catheters and cleansing exit sites
	PC15. Describe the various methods for preparing a patient's skin for cannulation
	PC16. Prepare a patient's skin for cannulation using anti-bacterial solutions
	PC17. Apply a tourniquet
	PC18. Select a site for cannulation and insert a needle into the patient's vein
	PC19. Understand the concept of Antegrade and retrograde needle direction
	PC20. Understand how to rotate cannulation sites for fistulae and grafts
	PC21. Secure needles after insertion

	<p>PC22. Describe common complications that occur due to: a. Fistulae, grafts and catheters b) b. Poor needle site rotation, c) c. Dialysis</p> <p>PC23. Monitor catheters during the treatments</p> <p>PC24. Describe post-dialysis care for fistulae, catheters and grafts</p>	
HSS/ N 2711: Respond to dialysis related emergencies in patient and equipment	<p>PC1. Clean up any spillage</p> <p>PC2. Know when the dialysate, dialyzer or other constituents need to be replaced</p> <p>PC3. Follow standard sterilisation and cleaning procedure for the unit</p> <p>PC4. Disinfect dialysis machine according to the manufacturer's recommendations</p> <p>PC5. The dialysate circuit should be exposed to disinfectant</p>	5
HSS/ N 2712: Reprocess dialyser treatment guidelines.	<p>PC1. Clean up any spillage</p> <p>PC2. Know when the dialysate, dialyzer or other constituents need to be replaced</p> <p>PC3. Follow standard sterilisation and cleaning procedure for the unit</p> <p>PC4. Disinfect dialysis machine according to the manufacturer's recommendations</p> <p>PC5. The dialysate circuit should be exposed to disinfectant</p>	5
HSS/ N 2713: Operate and maintain water treatment plant	<p>PC1. Check the incoming water temperature</p> <p>PC2. Look around the RO(reverse osmosis) system for any visible fluid leaks</p> <p>PC3. Check and record the pressure gauge</p> <p>PC4. Measure and record the pressures before and after the endotoxin filter</p> <p>PC5. Record all checks, including time and initials, on the Daily Dialysis Water Equipment Monitoring Log Sheet</p> <p>PC6. Check and record the pump, reject, and product pressures</p> <p>PC7. Check and record the recycle, waste, and permeate flow rates</p> <p>PC8. Check and record the inlet and permeate conductivities</p> <p>PC9. Read the RO monitor and record the conductivity and percent rejection</p> <p>PC10. Check and record the pump run hours</p> <p>PC11. Check the multi-media sediment filter</p> <p>PC12. Measure and record the pressures before and after the multi-media filter</p>	5

	PC13. Check the water softener	
	PC14. Measure and record the pressures before and after the water softener	
	PC15. Check and record the setting for the regeneration timer. The timer should be set to activate when the facility, especially the RO, is not operating	
	PC16. Check the brine tank	
HSS/ N 9610 (Follow infection control policies and procedures)	PC1. Perform the standard precautions to prevent the spread of infection in accordance with organisation requirements	5
	PC2. Perform 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	

	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	
Grand Total-1 (Subject Domain)		80
Soft Skills and Communication		Select all NOS totalling 20
National Occupational Standards (NOS)	Performance Criteria (PC)	Weightage

1. Attitude		
HSS/ N 9603 (Act within the limits of one's competence and authority)	PC1. Adhere to legislation, protocols and guidelines relevant to one's role and field of practice	4
	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	
2. Team Work		
HSS/ N 9604 (Work effectively with others)	PC1. Communicate with other people clearly and effectively	4
	PC2. Integrate one's work with other people's work effectively	
	PC3. Pass on essential information to other people on timely basis	
	PC4. Work in a way that shows respect for other people	
	PC5. Carry out any commitments made to other people	
	PC6. Reason out the failure to fulfil commitment	
	PC7. Identify any problems with team members and other people and take the initiative to solve these problems	
	PC8. Follow the organisation's policies and procedures	
3. Safety management		
HSS/ N 9606 (Maintain a safe, healthy, and secure working environment)	PC1. Identify individual responsibilities in relation to maintaining workplace health safety and security requirements	4
	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	

	<p>PC4. Identify potential hazards and breaches of safe work practices</p> <p>PC5. Correct any hazards that individual can deal with safely, competently and within the limits of authority</p> <p>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</p> <p>PC7. Follow the organisation's emergency procedures promptly, calmly, and efficiently</p> <p>PC8. Identify and recommend opportunities for improving health, safety, and security to the designated person</p> <p>PC9. Complete any health and safety records legibly and accurately</p>	
4. Waste Management		
HSS/ N 9609 (Follow biomedical waste disposal protocols)	<p>PC1. Follow the appropriate procedures, policies and protocols for the method of collection and containment level according to the waste type</p> <p>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</p> <p>PC3. Segregate the waste material from work areas in line with current legislation and organisational requirements</p> <p>PC4. Segregation should happen at source with proper containment, by using different colour coded bins for different categories of waste</p> <p>PC5. Check the accuracy of the labelling that identifies the type and content of waste</p> <p>PC6. Confirm suitability of containers for any required course of action appropriate to the type of waste disposal</p> <p>PC7. Check the waste has undergone the required processes to make it safe for transport and disposal</p> <p>PC8. Transport the waste to the disposal site, taking into consideration its associated risks</p> <p>PC9. Report and deal with spillages and contamination in accordance with current legislation and procedures</p> <p>PC10. Maintain full, accurate and legible records of information and store in correct location in line with current legislation, guidelines, local policies and protocols</p>	4
5. Quality Assurance		

HSS/ N 9611: Monitor and assure quality	PC1. Conduct appropriate research and analysis	4
	PC2. Evaluate potential solutions thoroughly	
	PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry	
	PC4. Read Dental hygiene, dental and 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	
Grand Total-2 (Soft Skills and Communication)		20