

NSQF QUALIFICATION FILE

Approved in 17th NSQC Meeting – NCVET – 31st March, 2022

Rationalized in 24th NSQC Meeting Date 17 November 2022

Qualification Code
2022/HLT/HSSC/06762

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Healthcare Sector Skill Council

Office No. 520-521, 5th Floor, DLF Tower A, Jasola, New Delhi - 110025, India

Name and contact details of individual dealing with the submission

Name: Mr. Ashish Jain

Position in the organisation: Chief Executive Officer

Address if different from above: NA

Tel number(s):011-40505850,011 41017346

E-mail address: ashish.jain@healthcare-ssc.in

List of documents submitted in support of the Qualifications File

1. Qualification Pack- Annexure1
2. Model Curriculum- Annexure 2
3. Occupational Map- Annexure 3
4. Technical guidance document of Biomedical Equipment Maintenance and Management Program guidelines released by NHSRC, MoHFW in 2019- Annexure 4

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1	Qualification Title: Medical Equipment Assistant (Basic Clinical Equipment)
2	Qualification Code, if any: HSS/Q5601
3	NCO code and occupation: Nearest Mapping to NCO-2015/3211.0501 and Non-Direct Care
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term) This is a skilling course in which individuals install, maintain and repair patient care equipment. They perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff.
5	Body/bodies which will award the qualification Healthcare Sector Skill Council
6	Body which will accredit providers to offer courses leading to the qualification Healthcare Sector Skill Council
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy) Follow process of affiliation and accreditation of HSSC. Theory and Practical in Classroom and OJT in Healthcare Service Provider
8	Occupation(s) to which the qualification gives access These professionals are usually absorbed in Bio-medical dept (Small/ Medium/ Large), Diagnostic centers, Primary Health Centers (PHC), Community Health centers (CHC) and medical equipment dealers /Manufacturers.
9	Job description of the occupation

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	The individuals install, maintain and repair patient care equipment. They perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff.																						
10	Licensing requirements NA																						
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided) NA																						
12	Level of the qualification in the NSQF Level 4																						
13	Anticipated volume of training/learning required to complete the qualification Notional Hours: TH-150 + PR-210 + OJT- 90 + ES- 60 = 510 Hrs.																						
14	Indicative list of training tools required to deliver this qualification; <table border="1"><thead><tr><th>Equipment Name</th><th>Minimum number of Equipment required (per batch of 20 trainees)</th></tr></thead><tbody><tr><td>Conductor</td><td>1</td></tr><tr><td>Semiconductor</td><td>1</td></tr><tr><td>Insulator</td><td>1</td></tr><tr><td>Digital Tech</td><td>1</td></tr><tr><td>Microprocessor</td><td>1</td></tr><tr><td>Oscilloscope</td><td>1</td></tr><tr><td>Curve Tracer</td><td>1</td></tr><tr><td>Inductors</td><td>1</td></tr><tr><td>Motor</td><td>1</td></tr><tr><td>Drilling Machine</td><td>1</td></tr></tbody></table>	Equipment Name	Minimum number of Equipment required (per batch of 20 trainees)	Conductor	1	Semiconductor	1	Insulator	1	Digital Tech	1	Microprocessor	1	Oscilloscope	1	Curve Tracer	1	Inductors	1	Motor	1	Drilling Machine	1
Equipment Name	Minimum number of Equipment required (per batch of 20 trainees)																						
Conductor	1																						
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Suction apparatus and its pipelines	1
Circuits	1
Connectors	1
ECG Machine	1
Amplifiers	1
Generators	1
Analyzers	1
Humidifiers	2
Nebulizers	2
Handheld Digital Thermometer	2
Temperature sensors	2
Ventilators	1
Heart Monitor/Cardiac monitor	1
Blood pressure monitor	1
Pulse oxymeter	1
Hand Tools Kit	1
O2 meter	1
Watt Meter	1
IV testers	1
Pressure Meters	1
Diagnostic Software	1

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	BIPAP	1
	CPAP	1
	Oxygen Equipment (Concentrator & Cylinder)	1
	Flowmeter	1
	Multipara Monitor	1
	COVID PPE Kit	1
	Hand Sanitizer	1
	Refrigerator	1
	Computers/ Laptops	1
	Isopropyl Solution	1
	Different Colour Plastic Bags With Dustbins (Red)	1
	Different Colour Plastic Bags With Dustbins (Blue)	1
	Different Colour Plastic Bags With Dustbins (Black)	1
	Different Colour Plastic Bags With Dustbins (Yellow)	1
	Gloves (Disposable) - Packet	5
	Liquid Soap Bottle	3
15	Entry requirements and/or recommendations and minimum age <ul style="list-style-type: none">• 12th Grade Pass	

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	<p>Or</p> <ul style="list-style-type: none">• Pursuing 1st year of UG <p>Or</p> <ul style="list-style-type: none">• Completed 2nd year of the 3-year diploma after 10 <p>Or</p> <ul style="list-style-type: none">• Pursuing 3rd year of 3-year diploma after 10th <p>Or</p> <ul style="list-style-type: none">• Pursuing 1st year of 2-year diploma after 12th <p>Or</p> <ul style="list-style-type: none">• 10th Grade pass plus 3 years of vocational education & Training <p>Or</p> <ul style="list-style-type: none">• 8th Grade pass with 2 year NTC plus 1 year NAC plus 1 year CITS <p>Or</p> <ul style="list-style-type: none">• Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 1 year of relevant experience <p>Minimum Age: 18 years</p>
16	<p>Progression from the qualification (Please show Professional and academic progression)</p> <p>Vertical:</p> <p>NSQF Level 4: CSSD Assistant</p> <p>NSQF Level 4: Hospital Front Desk Coordinator</p> <p>NSQF Level 4: Medical Equipment Technology Assistant</p> <p>NSQF Level 5: Trainer, Assessor</p> <p>Progression to Diploma/Degree qualifications in the relevant field after training. (NCAHP)</p>
17	<p>Arrangements for the Recognition of Prior learning (RPL)</p> <p>HSSC has developed RPL policy to conduct pre assessment of students for gap analysis as per NOS, sharing the gap & final assessments of students and certification. It is explained in section 1 under Assessment, Point 2</p>

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18	International comparability where known (research evidence to be provided) N.A.		
19	Date of Planned Review of the Qualification After 3 years		
20	Formal Structure of the Qualification		
	Mandatory Components		
	Title of Component and Identification code/NOS's/Learning Outcome	Estimated Size (Learning Hours)	Level
	HSS / N 5601 : Deliver and set-up medical equipment	135	4
	HSS / N 5602 : Train and educate hospital staff	75	4
	HSS / N 5603 : Calibrate and help in equipment maintenance	75	4
	HSS / N 5604 : Provide on-call and on-site assistance	90	4
	HSS / N 9603 : Act within the limits of ones competence and authority	15	4
	HSS / N 9606 : Maintain a safe healthy and secure working environment	15	4
	HSS / N 9607 : Practice Code of conduct while performing duties	15	4
	Bridge Module	30	
	DGT/VSQ/N0102 : Employability Skills (60 Hours)	60 Hrs	4
	Sub Total A	510 Hrs	4

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Elective Components		
Title of Component and Identification code/NOS's/Learning Outcome	Estimated Size (Learning Hours)	Level
NA	NA	NA
Sub Total B	NA	
Total (A+B)	510 Hrs	4

SECTION 1

ASSESSMENT

21	Body/Bodies which will carry out assessment: HSSC
22	How will RPL assessment be managed and who will carry it out? Give details of how RPL assessment for the qualification will be carried out and quality assured. HSSC conducts QP-NOS based direct three-way assessment for each and every candidate applied for recognition of prior learning (vis. Certifying the un-certified but skilled workforce who acquired skills through experience of years). Here, the candidates may undergo short-term training of gaps identified. The assessment is conducted via HSSC certified assessor. The assessment pattern is as follows: REGISTRATION The candidates need to submit registration form online along with uploading of scanned copies of some mandatory documents. Based on screening of the form, the candidates would be registered on conforming following eligibility criteria. PRE-ASSESSMENT: The purpose of Pre-assessment is to shortlist candidates as per prescribed limit, and also to notify gaps NOS wise to each candidate for their own self-training or opting for short-term training module

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before final assessment. The pre-assessment also informs about the reliability of information provided by candidates that they have experience working in the given job role. The pre-assessment is Online, Objective type, NOS based, with Each NOS compulsory each carrying 100 marks, No negative marking for incorrect answers, Test venue is kept as may be home/cyber café/institution/HSSC assessment center if the system have google chrome (Version 41.0.2272.101) and a web camera. Timed test link which expires after 90 minutes from the time of starting / writing the test is used for the same. Result is presented with no. of questions allotted and answered correctly for each NOS along with marks scored for each NOS out of 100.

PORTFOLIO SCREENING

Each registered candidate has to prepare and submit the portfolio as per formats given by HSSC. The portfolio may be verified by HSSC/nominated assessor during pre-assessment and scoring card is given for each portfolio.

FINAL ASSESSMENT: The candidates conforming to RPL guidelines based on both pre-assessment and portfolio screening are finally selected for final assessment. Final assessment is conducted through HSSC accredited Assessing body as per HSSC defined assessment criteria and NOS used for assessment of fresh entrants as described above. Final Assessment is conducted at the training site or at working place in case number of enrolled candidate from the site is more than 15. If needed, Assessment centers is arranged for assessment of candidates in cluster

23 Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.

QA regarding accreditation of Assessing Body:

The HSSC Accreditation process is divided into two steps:

- 1) Pre-accreditation process:

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- Apply for Accreditation: Application form with desired documents in prescribed format to be sent.
 - Document Compliance Check: to be done for ensuring the compliance and adherence of applied assessing body according to criteria laid down by HSSC.
 - Presentation on Quality Assurance: to be given by Assessing body highlighting the quality assurance process laid down by AB at the process points
 - Once the assessing body clears the due diligence process, the accreditation is given along with terms and conditions.
- 2) Post-accreditation process: Post accreditation, the accredited assessing bodies needs to fulfill following minimum eligibility criteria or requisites for implementation:
- All Empanelled Assessors would have to undergo “**Train the Assessor**” Program conducted by HSSC for each job role time to time.
 - Accredited Assessing Body would have to abide with requisite time-lines, policies and regulations declared by HSSC.
 - Accredited Assessing Body with times would have to contribute in expansion of the questionnaire.

QA Regarding Assessment Criteria & papers:

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. Accordingly, assessment criteria for each job role is set and made available in qualification pack.

The assessment papers for both theory and practical are developed by Subject Matter Experts (SME) hired by Healthcare Sector Skill Council or with the HSSC accredited Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessments

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papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc.

The assessment sets as well as assessment criteria are then reviewed by panel of experts from Industry as well as HSSC official for consistency and suitability. The assessments are designed so as to assess maximum parts during the practical hands on work. The technical limitations at the training centres are taken care in theory and viva.

All HSSC accredited Assessment Agency follow the "HSSC process of Assessment Framework" and HSSC approved assessment papers. The assessment by assessment agency will be completely based on the assessment criteria as mentioned in the Qualification Pack developed by HSSC.

Each NOS in the Qualification Pack (QP) will be assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Performance Criteria in the NOS will be assigned marks for or practical based on relative importance, criticality of function and training infrastructure.

The following tools are proposed to be used for final assessment:

1 Practical Assessment: This will comprise of a creation of mock environment in the skill lab which is equipped with all equipment's required for the qualification pack.

Candidate's soft skills, communication, aptitude, safety consciousness, quality consciousness etc. will be ascertained by observation and will be marked in observation checklist. The end product will be measured against the specified dimensions and standards to gauge the level of his skill achievements.

2 Viva/Structured Interview: This tool will be used to assess the conceptual understanding and the behavioural aspects as regards the job role and the specific task at hand. It will also include questions on safety, quality, environment and equipment's etc.

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3 Written Test: Under this test few key items which cannot be assessed practically will be assessed. The written assessment will comprise of

- i. True / False Statements
- ii Multiple Choice Questions
- iii Matching Type Questions.
- iv) Fill in the blanks

QA Regarding Assessors:

Assessors are selected as per the “eligibility criteria” laid down by HSSC for assessors for each job role. The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to HSSC Assessment Framework, competency based assessments, assessors guide etc. HSSC conducts “Training of Assessors” program time to time for each job role and sensitize assessors regarding assessment process and strategy which is outlined on following mandatory parameters:

- 1) Guidance regarding NSQF
- 2) Qualification Pack Structure
- 3) Guidance for the assessor to conduct theory, practical and viva assessments
- 4) Guidance for trainees to be given by assessor before the start of the assessments.
- 5) Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet
- 6) Viva guidance for uniformity and consistency across the batch.
- 7) MOCK assessments
- 8) Sample question paper and practical demonstration

HSSC also conduct telephonic orientation of the assessors before each assessment for the given job role to assure quality, fairness and timely conduct of assessment.

The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with its

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assessment agency by which they commit themselves to comply with the rules of confidentiality and conflict of interest, independence from commercial and other interests that would compromise impartiality of the assessments.

QA before, during and after Assessments:

HSSC ensures pre-requisites of Assessment needed by training institute regarding ARTICLES like Mannequins, Mock Ward Infrastructure, Transferring Equipment, Job role related equipment; INFRASTRUCTURE like Class rooms, Skill Lab, Aids like board/marker/logistics, Furniture like display tables, chairs; STAFF like Co-ordinator from training institute, Peon, Some additional members(for simulated situations, if required); DOCUMENTS like Admit Card, Govt. validated ID proof, Record Books like attendance, log book, internal evaluation sheets, Student Enrollment details; for CO-ORDINATION one full time co-ordination point for co-ordination with assessment coordinator before, during and after assessment.

HSSC ensures the three Phases of Assessment to be assured by assessing body and assessor for fair, consistent and quality assessment.

The three phases of assessment is enlisted below:

PREPARATORY PHASE: Documents ensured to be packed, sent and received: Seal Pack of Sets of Papers, Invigilation Sheet/Covering letter, OMR/Answer sheet; Well **Co-ordination needs to be assured between** Assessment Co-ordinator of assessing body, HSSC official, Co-ordinator from skill center and assessor.

PHASE OF CONDUCT:

1) Written Examination:

- o Assessor should reach the VTP 30 minutes before the assessment and ensure that all the arrangements are as per the HSSC rules and regulation

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- O* He should make seating arrangement to students leaving minimum 3 feet space between candidates.
- O* He should make the students sit in the order of seating arrangements.
- O* The enrolment numbers are to be written on the desks before the arrival of students.
- O* The details to be filled like assessor name , date and Qualification name should be written on the board
- O* Learners should keep all their belongings outside the classroom. All mobiles should be switched off and kept on the desk in front of the invigilator
- O* The seal of the assessment materials is opened in front of the students.
- O* OMR sheets to be distributed to all learners
- O* Assessors should instruct the learners on the rules and regulation of the assessment
 - No. of questions
 - Duration of paper
 - Disciplinary rules
 - Administrative rules

2) Attendance:

- O* The assessor/assessment co-ordinator needs to get signature of all candidates while theory as well as practical examination on invigilation sheet. The sheets are signed and stamped by the In-charge /Head of the Training Centre.
- O* The assessor/assessment co-ordinator needs to verify the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same needs to be mentioned in the attendance sheet. In case of suspicion, the assessor should

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authenticate and cross verify trainee's credentials in the enrolment form.

- O* The assessor/assessment co-ordinator needs to punch the trainee's roll number on all the test pieces.
- O* The assessor/assessment co-ordinator needs to take a photograph of all the students along with the assessor standing in the middle and with the centre name/banner at the back as evidence.
- O* The assessor/assessment co-ordinator needs to carry a camera to click photograph of the trainees working on the job and giving theory exam as evidence.
- O* The assessor/assessment co-ordinator also needs to carry a photo ID card.
- O* The assessor/assessment co-ordinator also needs to take the photographs as evidence from appropriate angles/sides of the final work piece/job submitted by the trainee. This evidence is signed by the trainee at the time of submission of the job piece.
- O* The assessor/assessment co-ordinator needs to measure the dimensions and finish of the submitted job piece as per the tolerance or standards mentioned in the assessment guide.

3) Segregate learners into batches:

- O* Assign combination of one critical and one elementary NOS along with the soft skill NOS
- O* Allocate time to learner
- O* Ask learners to be present 5 minutes earlier than the time allotted at the lab

4) Conduct Practical Assessments:

- O* Assign practical task to the learners
- O* Ask the learner to collect articles and be ready for assessments
- O* Observe learner conducting the assigned task

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- O* Evaluate and Record observations and marks and in the recording sheets
- O* You may ask learners question on the task being done

5) **Conduct Viva:**

- O* Ask questions from the learners on the assigned task
- O* Ask questions prescribed in the assessment guide on non-prescribed tasks to ensure that the learners have complete knowledge on the assessment

6) **Collate Results:**

- O* Check written answer scripts
- O* Sum up the practical NOS marks
- O* Sum up the viva marks
- O* Remember to sign off on all sheets where scores are mentioned
- O* Submit the collated result to assessment body representative/project manager

- 7) **Surprise Visits/Surveillance check** is kept to ensure the quality and fair assessments.

POST-ASSESSMENT PHASE

1) **Verify Result**

- O* Check for accuracy of names and date of birth
- O* Check for accuracy of marks against each learner
- O* Ensure that the pass percentage is correctly applied to the result
- O* Ensure that the learner has cleared all sections of the assessments in line with the HSSC assessment strategy
- O* Check if the excel sheet for each learner is accurately filled and is available for cross referencing with the covering result sheet
- O* Each and every result has to get cross-verified by HSSC official

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2) Upload/Sharing of Results

- o Once the results are ready it is uploaded on the SDMS website/portal and verified on the same
- o Or the results are shared to Training institute only by HSSC.
- o In case of any query or issue raised for assessment, the assessments are subjected to re-evaluation as per protocol laid down by HSSC.

3) Documentation

- o Question papers are kept in secure cupboard with limited and controlled access.
- o Used OMR sheets are to be stored for the next ten years

QP should be always current version

Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – ie Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component:

<u>Job Role</u>	Medical Equipment Assistant (Basic Clinical Equipment)
<u>Qualification Pack Code</u>	HSS/Q5601

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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. Either each element/Performance Criteria (PC) will be assigned marks proportional to its importance in NOS.

SSC will also lay down proportion of marks for Theory, viva and Skills Practical for each element/PC.

2. The assessment for the theory part will be based on knowledge bank of questions approved by the SSC.

3. Individual assessment agencies will create unique question papers for theory part for each candidate/batch at each examination/training center (as per assessment criteria below).

4. Individual assessment agencies will create unique evaluations for skill practical & viva for every student

at each examination/ training center based on these criteria.

5. In case of successfully passing as per passing percentage of the job role, the trainee is certified for the Qualification Pack.

6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

NOS Code *	NOS Name *	Theory Marks	Practical Marks	Viva	Total Marks *
HSS/N5601	Deliver and set-up medical equipment	40	140	60	240
HSS/N5602	Train and educate hospital staff	40	155	45	240
HSS/N5603	Calibrate and help in equipment maintenance	48	155	45	248

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HSS/N5604	Provide on-call and on-site assistance	48	130	70	248
HSS/N9603	Act within the limits of one's competence and Authority	24		50	74
HSS/N9606	Maintain a safe, healthy, and secure working environment	24		50	74
HSS/N9607	Practice Code of conduct while performing duties	24		50	74
DGT/VSQ/N010 2	Employability Skills (60 Hours)	20	30		
	Total	268	610	370	1248

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Enter the title here number			Level: Add level
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process			
Professional knowledge			
Professional skill			
Core skill			
Responsibility			

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Title/Name of qualification/component: Enter the title here			Level: Add level
number			
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level

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OPTION B

Title/Name of qualification/component: Medical Equipment Assistant (Basic Clinical Equipment) Level: 4			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	<p>Work in familiar, predictable, routine, situation of clear choice.</p> <ul style="list-style-type: none"> • install, maintain and repair basic patient care equipment. • perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff. • Their area of work is limited to only basic patient care equipment. 	<p>The Medical Equipment Assistant (Basic Clinical Equipment) during the job will carry out limited range of activities which are routine and predictable.</p> <p>Refer to the evidences provided in the adjacent column.</p> <p>Hence it falls under Level 4.</p>	4

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Title/Name of qualification/component: Medical Equipment Assistant (Basic Clinical Equipment) Level: 4			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Professional knowledge	<p>Factual knowledge of field of knowledge or study.</p> <ul style="list-style-type: none"> • Should be aware of the procedure to install, maintain and repair basic patient care equipment. • They perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff. • They should be aware of the fact that their area of work is limited to only basic patient care equipment. 	<p>The Medical Equipment Assistant (Basic Clinical Equipment) should have the knowledge of basic facts, process and principles applied in trade of employment.</p> <p>Refer to the evidences provided in the adjacent column.</p> <p>Hence it falls under Level 4.</p>	4

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Title/Name of qualification/component: Medical Equipment Assistant (Basic Clinical Equipment) Level: 4			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Professional skill	<p>Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts</p> <ul style="list-style-type: none"> is expected to Deliver and set-up medical equipment, Train and educate hospital staff and help in equipment maintenance, Provide on-call and on-site assistance. Their area of work is limited to only basic patient care equipment. 	<p>The Medical Equipment Assistant (Basic Clinical Equipment) should have practical skills which are routine and repetitive in narrow range of application.</p> <p>Refer to the evidences provided in the adjacent column.</p> <p>Hence it falls under Level 4.</p>	4
Core skill	<p>Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic</p>	<p>The Medical Equipment Assistant (Basic Clinical Equipment) should have written and oral communication skills and should be able to solve basic arithmetic and algebraic</p>	4

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Rationalized in 24th NSQC Meeting Date 17 November 2022

Title/Name of qualification/component: Medical Equipment Assistant (Basic Clinical Equipment) Level: 4			
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>understanding of social political and natural environment.</p> <ul style="list-style-type: none"> • should have the ability to understand and follow complex technical instructions, ability to pay close attention to detail, ability to effectively use computer applications, familiarity with the techniques of maintaining a filing system, accuracy, dependability, meticulous, communicative, a passion for helping people, experience in medical Environment and terminology. • follow the organization’s emergency procedures promptly, calmly, and efficiently 	<p>principles, also having understanding of social and natural environment.</p> <p>Refer to the evidences provided in the adjacent column.</p> <p>Hence it falls under Level 4.</p>	

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	<ul style="list-style-type: none"> report any identified breaches in health, safety, and security procedures to the designated person identify and recommend opportunities for improving health, safety, and security to the designated person 		
Responsibility	<p>Responsibility for own work and learning.</p> <ul style="list-style-type: none"> responsible to install, maintain and repair basic patient care equipment. Moreover, They perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff. 	<p>The Medical Equipment Assistant (Basic Clinical Equipment) should be able to deal with the responsibilities for own work within defined limit.</p> <p>Refer to the evidences provided in the adjacent column.</p> <p>Hence it falls under Level 4.</p>	4

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	<ul style="list-style-type: none">• Their area of work is limited to only basic patient care equipment.		

SECTION 3

EVIDENCE OF NEED

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?	
26	estimated uptake of estimate? Basis	What evidence is there that the qualification is needed? What is the this qualification and what is the basis of this In case of SSC
	Need of qualification	While collecting data from the companies for the occupational map & functional analysis, we also took feedback from industry, which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the Industry feels they face.
	Industry Relevance	The qualification is duly recognized under human resource chapter no. 5 of technical guidance document of Biomedical Equipment Maintenance and Management Program guidelines released by MoHFW in 2019. The guidelines could be referred from https://nhm.gov.in/New_Updates_2018/NHM_Components/Health_System_Stregthening/Comprehensive_primary_health_care/letter/BMMP_Technical%20Manual.pdf
	Usage of qualification	The SSC would submit details of the employment generated (wherever applicable) and realised

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	Estimated uptake	The workforce in allied healthcare sector need expected to around 74 lac by 2022 double the workforce employed in 2013 as envisaged in Skills Gap analysis Reports for industry demand and secondary research data, though these do not lend to accurate demand projection as per the draft report of NSDC Human Resource & Skills Requirement in Healthcare Sector. As per technical guidance document of Biomedical Equipment Maintenance and Management Program guidelines released by MoHFW in 2019; 5 per state, 2 per division, 5 per district, 1 per CHC and 1 per PHC certified medical equipment technicians from HSSC would be required.
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences <ul style="list-style-type: none">• No changes has been done except revision of nomenclature as per policy recommendation of MoHFW vide letter number Z-28020/73/2018-AHS dated 25th September 2018.• The qualification is duly recognized under human resource chapter no. 5 of technical guidance document of Biomedical Equipment Maintenance and Management Program guidelines released by MoHFW in 2019. The guidelines could be referred from https://nhm.gov.in/New_Updates_2018/NHM_Components/Health_System_Stregthening/Comprehensive_primary_health_care/letter/BMMP_Technical%20Manual.pdf	

<p>28</p>	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</p> <ul style="list-style-type: none"> ● This is a revised version of already approved qualification at NQR Medical Equipment Technician (Basic Clinical Equipment with code 2015/HLT/HSSC/00282. ● No changes have been done
<p>29</p>	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</p> <ul style="list-style-type: none"> ● Agencies/personnel would be appointed by the HSSC to interact with training providers, employers, assessors to gather feedback in implementation. ● Monitoring of results of assessments, training delivery ● Employer feedback will be sought post-placement ● A formal review is scheduled in five year time

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4

EVIDENCE OF PROGRESSION

<p>30</p>	<p>What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?</p>
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<p>Vertical:</p> <p>NSQF Level 4: CSSD Assistant</p> <p>NSQF Level 4: Hospital Front Desk Coordinator</p> <p>NSQF Level 4: Medical Equipment Technology Assistant</p> <p>NSQF Level 5: Trainer, Assessor</p> <p>Progression to Diploma/Degree qualifications in the relevant field after training. (NCAHP)</p>
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