



Please refer [Guidelines for STT/LTT/Apprenticeship/OEM Qualification File](#)

## QUALIFICATION FILE

### Biomedical Equipment Assistant

(Electives: 1. Anesthesiology equipment and devices, 2. Pain Management equipment and devices, 3. Cardiovascular equipment and devices, 4. Dental equipment and devices, 5. Ear, Nose, Throat (ENT) equipment and devices, 6. Gastroenterological equipment and devices, 7. Urological equipment and devices, 8. General Hospital equipment and devices, 9. Operation Theater (OT) equipment and devices, 10. Respiratory equipment and devices, 11. Neurological equipment and devices, 12. Personnel use equipment and devices, 13. Obstetrical and Gynecological (OG) equipment and devices, 14. Ophthalmic equipment and devices, 15. Rehabilitation equipment and devices, 16. Physical support equipment and devices, 17. Interventional and Radiology equipment and devices, 18. Rheumatology equipment and devices, 19. Dermatology and Plastic Surgery equipment and devices, 20. Pediatric and Neonatology Medical equipment and devices, 21. Oncology equipment and devices, 22. Radiotherapy equipment and devices, 23. Nephrology and Renal care equipment and devices, 24. In-Vitro Diagnostics Devices, 25. Ambulance equipment and devices, 26. Medical Software, 27. CSSD equipment and devices, 28. PSA Based Oxygen plants & Medical Gas Pipeline Systems)

- Short Term Training (STT)  Long Term Training (LTT)  Apprenticeship  
 Upskilling  Dual/Flexi Qualification  For ToT  For ToA  
 General  Multi-skill (MS)  Cross Sectoral (CS)  Future Skills  OEM

NCrF/NSQF Level: 4

Submitted By:

Healthcare Sector Skill Council

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

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NSQC Approved

Section 1: Basic Details

1.	<p><b>Qualification Name</b></p>	<p><b>Biomedical Equipment Assistant</b></p> <p><b>Electives:</b></p> <ol style="list-style-type: none"> <li>1. Anesthesiology equipment and devices</li> <li>2. Pain Management equipment and devices</li> <li>3. Cardiovascular equipment and devices</li> <li>4. Dental equipment and devices</li> <li>5. Ear, Nose, Throat (ENT) equipment and devices</li> <li>6. Gastroenterological equipment and devices</li> <li>7. Urological equipment and devices</li> <li>8. General Hospital equipment and devices</li> <li>9. Operation Theater (OT) equipment and devices</li> <li>10. Respiratory equipment and devices</li> <li>11. Neurological equipment and devices</li> <li>12. Personnel use equipment and devices</li> <li>13. Obstetrical and Gynecological (OG) equipment and devices</li> <li>14. Ophthalmic equipment and devices</li> <li>15. Rehabilitation equipment and devices</li> <li>16. Physical support equipment and devices</li> <li>17. Interventional and Radiology equipment and devices</li> <li>18. Rheumatology equipment and devices</li> <li>19. Dermatology and Plastic Surgery equipment and devices</li> <li>20. Pediatric and Neonatology Medical equipment and devices</li> <li>21. Oncology equipment and devices</li> <li>22. Radiotherapy equipment and devices</li> <li>23. Nephrology and Renal care equipment and devices</li> <li>24. In-Vitro Diagnostics</li> <li>25. Ambulance equipment and devices</li> <li>26. Medical Software</li> <li>27. CSSD equipment and devices</li> <li>28. PSA Based Oxygen plants &amp; Medical Gas Pipeline Systems</li> </ol> <ul style="list-style-type: none"> <li>● One Elective is MUST for qualification.</li> </ul>
2.	<p><b>Sector/s</b></p>	<p><b>Healthcare</b></p>

3.	<b>Type of Qualification:</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input checked="" type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	<b>NQR Code &amp; version of existing/previous qualification:</b> <i>(change to previous, once approved)</i> 2022/HLT/HSSC/06762	<b>Qualification Name of existing/previous version:</b> Medical Equipment Assistant (Basic Medical Equipment)																					
4.	<b>a. OEM Name</b> <b>b. Qualification Name</b> <i>(Wherever applicable)</i>	Biomedical Equipment Technician																						
5.	<b>National Qualification Register (NQR) Code &amp;Version</b> <i>(Will be issued after NSQC approval)</i>	QG-04-HE-03618-2025-V2-HSSC	<b>6. NCrF/NSQF Level: 4</b>																					
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other</b> <i>(Wherever applicable specify multiple entry/exits also &amp; provide details in annexure)</i>	Skill Certificate																						
8.	<b>Brief Description of the Qualification</b>	This is a skilling course in which individuals would install, set-up, repair, maintain, calibrate and provide biomedical instrumentation Services for medical equipment/medical devices and In-vitro Diagnostic (IVD) devices. They provide post-installation instructions to hospital/facility staff along with management of inventory, documentation and supply chain.																						
9.	<b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b>	<b>a. Entry Qualification &amp; Relevant Experience:</b> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12th class pass or equivalent</td> <td></td> </tr> <tr> <td>2</td> <td>10<sup>th</sup> Grade Pass</td> <td>two years of any combination of NTC/NAC or equivalent</td> </tr> <tr> <td>3</td> <td>10th Grade Pass</td> <td>3 years relevant experience</td> </tr> <tr> <td>4</td> <td>11th Grade pass</td> <td>1.5-year relevant experience</td> </tr> <tr> <td>5</td> <td>Previous relevant Qualification of NSQF Level 3.5</td> <td>1.5-year relevant experience</td> </tr> <tr> <td>6</td> <td>Previous relevant Qualification of NSQF Level 3</td> <td>3 years of Experience in healthcare settings</td> </tr> </tbody> </table> <b>b. Age: 18 years</b>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	12th class pass or equivalent		2	10 <sup>th</sup> Grade Pass	two years of any combination of NTC/NAC or equivalent	3	10th Grade Pass	3 years relevant experience	4	11th Grade pass	1.5-year relevant experience	5	Previous relevant Qualification of NSQF Level 3.5	1.5-year relevant experience	6	Previous relevant Qualification of NSQF Level 3	3 years of Experience in healthcare settings
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																						
1	12th class pass or equivalent																							
2	10 <sup>th</sup> Grade Pass	two years of any combination of NTC/NAC or equivalent																						
3	10th Grade Pass	3 years relevant experience																						
4	11th Grade pass	1.5-year relevant experience																						
5	Previous relevant Qualification of NSQF Level 3.5	1.5-year relevant experience																						
6	Previous relevant Qualification of NSQF Level 3	3 years of Experience in healthcare settings																						

10.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> (as per National Credit Framework (NCrF))	13 (minimum)	<b>11. Common Cost Norm Category (I/II/III)</b> (wherever applicable):  Category I																					
12.	<b>Any Licensing requirements for Undertaking Training on This Qualification</b> (wherever applicable)	Not Applicable																						
13.	<b>Training Duration by Modes of Training Delivery</b> (Specify <b>Total Duration</b> as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <i>With 1 elective</i> <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>180</td> <td>120</td> <td>90</td> <td>NA</td> <td>390</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	180	120	90	NA	390	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	180	120	90	NA	390																			
Online																								
14.	<b>Aligned to NCO/ISCO Code/s</b> (if no code is available mention the same)	NCO-2015/3211/0501																						
15.	<b>Progression path after attaining the qualification</b> (Please show Professional and Academic progression)	Horizontal Mobility: NSQF Level 4: Telehealth Services Coordinator  Progression to Diploma/Degree qualifications in the relevant field after training. (NCAHP)																						
16.	<b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b>	Hindi																						
17.	<b>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:																						
18.	<b>Is the Job Role Amenable to Persons with Disability</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If “Yes”, specify applicable type of Disability:																						
19.	<b>How Participation of Women will be Encouraged</b>	Healthcare is a field where equal opportunity and participation of women is being given as patients could belong to all genders.																						

20.	<b>Are Greening/ Environment Sustainability Aspects Covered</b> ( <i>Specify the NOS/Module which covers it</i> )	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>Covered under</b> “ Diagnose, Repair, Calibrate, maintain, troubleshoot and provide technical assistance for equipment malfunctions”	
21.	<b>Is Qualification Suitable to be Offered in Schools/Colleges</b>	<b>Schools</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Colleges</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22.	<b>Name and Contact Details of Submitting / Awarding Body SPOC</b> ( <i>In case of CS or MS, provide details of both Lead AB &amp; Supporting ABs</i> )	<b>Name:</b> Mr. Ashish Jain <b>Email:</b> <a href="mailto:ashish.jain@healthcare-ssc.in">ashish.jain@healthcare-ssc.in</a> <b>Contact No.:</b> 011-40505850,011 41017346 <b>Website:</b> <a href="http://www.healthcare-ssc.in">www.healthcare-ssc.in</a>	
23.	<b>Final Approval Date by NSQC: 18/02/2025</b>	<b>24. Validity Duration: 3 years</b>	<b>25. Next Review Date: 18/02/2028</b>

NSQC Approved

## Section 2: Module Summary

## NOS/s of Qualifications

(In exceptional cases these could be described as components)

## Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

**Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT - Man	OJT-Rec.	Total	Th.	Pr.	Proj	Viva	Total	Weightage (%) (if applicable)
1.	Deliver, install, set-up medical equipment/devices and provide post-installation instructions to hospital/ facility staff	HSS/N5616, Version 1.0	Core	4	5	60	45	30		135	65	100	40	50	255	30
2.	Diagnose, Repair, Calibrate, maintain, troubleshoot and provide technical assistance for equipment malfunctions	HSS/N5617, Version 1.0	Core	4	5	60	45	30		135	195	70	35	50	350	30
3.	Employability Skills (30 Hours)	DGT/VSQ/N0101 , Version 1.0	Non-Core	2	1	30	0	0		30	20	30	0	0	50	10
<b>Duration (in Hours) / Total Marks</b>					11	150	90	60		300	280	200	75	100	655	70

Elective NOS/s 1: Anesthesiology equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Anesthesiology equipment and devices	HSS/N5618, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 2: Pain Management equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Pain Management equipment and devices	HSS/N5619, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 3: Cardiovascular equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation	HSS/N5620, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						



S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
	Services for Cardiovascular equipment and devices															
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 4: Dental equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Dental equipment and devices	HSS/N5621, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 5: Ear, Nose, Throat (ENT) equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Ear, Nose, Throat (ENT) equipment and devices	HSS/N5622, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

Elective NOS/s 6: Gastroenterological equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Gastroenterological equipment and devices	HSS/N5623, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

Elective NOS/s 7: Urological equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Urological equipment and devices	HSS/N5624, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 8: General Hospital equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks										
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)					
1.	Facilitate Biomedical Instrumentation Services for General Hospital equipment and devices	HSS/N5625, Version 1.0	Core	4	3						70	100	75	100	345	30					
						30	30	30		90											
<b>Duration (in Hours) / Total Marks</b>										3	30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 9: Operation Theatre (OT) equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks										
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)					
1.	Facilitate Biomedical Instrumentation Services for Operation Theatre (OT) equipment and devices	HSS/N5626, Version 1.0	Core	4	3						70	100	75	100	345	30					
						30	30	30		90											
<b>Duration (in Hours) / Total Marks</b>										3	30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 10: Respiratory equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical	HSS/N5627, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks										
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)					
	Instrumentation Services for Respiratory equipment and devices																				
<b>Duration (in Hours) / Total Marks</b>										3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 11: Neurological equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks										
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)					
1.	Facilitate Biomedical Instrumentation Services for Neurological equipment and devices	HSS/N5628, Version 1.0	Core	4	3						70	100	75	100	345	30					
						30	30	30		90											
<b>Duration (in Hours) / Total Marks</b>										3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 12: Personnel use equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Personnel use	HSS/N5629, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
	equipment and devices															
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 13: Obstetrical and Gynaecological (OG) equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Obstetrical and Gynaecological (OG) equipment and devices	HSS/N5630, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 14: Ophthalmic equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Ophthalmic equipment and devices	HSS/N5631, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 15: Rehabilitation equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Rehabilitation equipment and devices	HSS/N5632, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

Elective NOS/s 16: Physical support equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Physical support equipment and devices	HSS/N5633, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 17: Interventional and Radiology equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Interventional and Radiology equipment and devices	HSS/N5634, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 18: Rheumatology equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Rheumatology equipment and devices	HSS/N5635, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 19: Dermatology and Plastic Surgery equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical	HSS/N5636, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
	Instrumentation Services for Dermatology and Plastic Surgery equipment and devices															
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 20: Paediatric and Neonatology equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Paediatric and Neonatology equipment and devices	HSS/N5637, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 21: Oncology equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for	HSS/N5638, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						



S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
	Oncology equipment and devices															
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 22: Radiotherapy equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Radiotherapy equipment and devices	HSS/N5639, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						
<b>Duration (in Hours) / Total Marks</b>					3	30	30	30		90	70	100	75	100	345	30

Elective NOS/s 23: Nephrology and Renal care equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Nephrology and Renal care equipment and devices	HSS/N5640, Version 1.0	Core	4	3						70	100	75	100	345	30
						30	30	30		90						

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

Elective NOS/s 24: In-Vitro Diagnostics (IVD) devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for In-Vitro Diagnostics (IVD) devices	HSS/N5641, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

Elective NOS/s 25: Ambulance equipment and devices

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Ambulance equipment and devices	HSS/N5642, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 26: Medical Software**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for Medical Software	HSS/N5643, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 27: CSSD equipment and devices**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for CSSD equipment and devices	HSS/N5644, Version 1.0	Core	4	3	30	30	30		90	70	100	75	100	345	30
<b>Duration (in Hours) / Total Marks</b>						30	30	30		90	70	100	75	100	345	30

**Elective NOS/s 28: PSA Based Oxygen plants & Medical Gas Pipeline Systems**

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCRF/NSQ F Level	Credits as per NCRF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Pr oj.	Viva	Tot al	Weightage (%) (if applicable)
1.	Facilitate Biomedical Instrumentation Services for PSA Based Oxygen	HSS/N0929, Version 1.0	Core	4	4	45	30	45		120	70	100	75	100	345	30

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
	plants & Medical Gas Pipeline Systems															
<b>Duration (in Hours) / Total Marks</b>					4	45	30	45		120	70	100	75	100	345	30

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core / Non-Core	NCrF/NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
<b>Duration (in Hours) / Total Marks</b>																

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

**Minimum Pass Percentage – Aggregate at qualification level: 70%** (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

**Minimum Pass Percentage – NOS/Module-wise: \_\_\_\_%** (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

## Section 3: Training Related

1.	<b>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	BE/B.Tech (Bio-medical Engineering) with 1 year of relevant industry experience Or B.SC. with subject in Bio-medical Instrumentation with 2 year of relevant industry experience Or BE/B.Tech (Electrical/ Mechanical Engineering/Electronic Engineering/Equivalent) with 3 years of relevant industry experience in Bio-medical Instrumentation
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	BE/B.Tech (Bio-medical Engineering) with 2 year of relevant industry experience and 1 year of teaching experience Or B.SC. with subject in Bio-medical Instrumentation with 3 year of relevant industry experience and 1 year of teaching experience Or BE/B.Tech (Electrical/ Mechanical Engineering/Electronic Engineering/Equivalent) with 4 years of relevant industry experience in Bio-medical Instrumentation and 1 year of teaching experience
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	<b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>	Upskilling on revised version of NOSs and Employability skills is required

## Section 4: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	BE/B.Tech (Bio-medical Engineering) with 2 years of relevant industry experience and 1 year of assessment experience Or B.SC. with subject in Bio-medical Instrumentation with 3 year of relevant industry experience and 1 year of assessment experience Or
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		BE/B.Tech (Electrical/ Mechanical Engineering/Electronic Engineering/Equivalent) with 4 years of relevant industry experience in Bio-medical Instrumentation and 1 year of assessment experience
2.	<b>Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Diploma/Graduate
3.	<b>Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	BE/B.Tech (Bio-medical Engineering) with 3 year of relevant industry experience and 1 year of teaching experience  Or  B.SC. with subject in Bio-medical Instrumentation with 4 year of relevant industry experience and 1 year of teaching experience  Or  BE/B.Tech (Electrical/ Mechanical Engineering/Electronic Engineering/Equivalent) with 5 years of relevant industry experience in Bio-medical Instrumentation and 1 year of teaching experience
4.	<b>Assessment Mode (Specify the assessment mode)</b>	Blended (Theory: Online, Practical and Viva: Blended)
5.	<b>Tools and Equipment Required for Assessment</b>	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	<b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> No
3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes (National Medical Device Policy 2023 highlights the skilled workforce for medical devices)
4.	<b>Number of Industry validation provided:</b> 23
5.	<b>Estimated nos. of persons to be trained and employed:</b> 6000
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> <i>Awaited</i> If “No”, why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF level/NSQF descriptors <i>(Mandatory)</i>	Yes
2.	<b>Annexure:</b> List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	<b>Annexure:</b> Detailed Assessment Criteria <i>(Mandatory)</i>	Yes
4.	<b>Annexure:</b> Assessment Strategy <i>(Mandatory)</i>	Yes
5.	<b>Annexure:</b> Blended Learning <i>(Mandatory, in case selected Mode of delivery is “Blended Learning”)</i>	No
6.	<b>Annexure:</b> Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	No
7.	<b>Annexure:</b> Acronym and Glossary <i>(Optional)</i>	Yes
8.	<b>Supporting Document:</b> Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	<b>Supporting Document:</b> Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	<b>Supporting Document:</b> Occupational Map <i>(Mandatory)</i>	Yes
11.	<b>Supporting Document:</b> Assessment SOP <i>(Mandatory)</i>	Yes
12.	<b>Any other document you wish to submit:</b>	

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
<b>Professional Theoretical Knowledge/Processes</b>	<p><b>Work in familiar, predictable, routine, situation of clear choice.</b></p> <ul style="list-style-type: none"> <li>install, maintain and repair basic patient care equipment.</li> <li>perform inspection, installation, and preventative maintenance of medical equipment, including appropriate documentation for all service activities and training the hospital staff.</li> <li>Their area of work is limited to specified medical equipment.</li> </ul>	<p>The Medical Equipment Assistant 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

<p><b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b></p>	<p><b>Factual knowledge of field of knowledge or study.</b></p> <ul style="list-style-type: none"> <li>• Should be aware of the procedure to install, maintain and repair medical equipment.</li> <li>• They perform inspection, installation, and preventative maintenance of basic clinical equipment, including appropriate documentation for all service activities and training the hospital staff.</li> <li>• They should be aware of the fact that their area of work is limited to only basic patient care equipment.</li> </ul>	<p>The Medical Equipment Assistant 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>	<p>4</p>
<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p><b>Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Their area of work is limited to only basic patient care equipment.</li> </ul>	<p>The Medical Equipment Assistant 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>	<p>4</p>
<p><b>Broad Learning Outcomes/Core Skill</b></p>	<p><b>Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• follow the organization’s emergency procedures promptly, calmly, and efficiently</li> </ul>	<p>The Medical Equipment Assistant should have written and oral communication skills and should be able to solve basic arithmetic and algebraic 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>	<p>4</p>



	<ul style="list-style-type: none"> <li>report any identified breaches in health, safety, and security procedures to the designated person</li> <li>identify and recommend opportunities for improving health, safety, and security to the designated person</li> </ul>		
<b>Responsibility</b>	<p><b>Responsibility for own work and learning.</b></p> <ul style="list-style-type: none"> <li>responsible to install, maintain and repair medical equipment.</li> <li>Moreover, They perform inspection, installation, and preventative maintenance of medical equipment, including appropriate documentation for all service activities and training the hospital staff.</li> <li>Their area of work is limited to specified medical equipment.</li> </ul>	<p>The Medical Equipment Assistant 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

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

**Batch Size: 30**

*Compulsory*

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Conductor	Nos	1
2	Semiconductor	Nos	1
3	Insulator	Nos	1
4	Microprocessor	Nos	1
5	Inductors	Nos	1
6	Motor	Nos	1
7	Drilling Machine	Nos	1
8	Suction apparatus and its pipelines	Nos	1
9	Connectors	Nos	1
10	Dummy Equipment	Nos	5
11	Hand Tools Kit with Multimeter	Nos	1

12	O2 meter	Nos	1
13	Watt Meter	Nos	1
14	Pressure Meters	Nos	1
15	PPE Kit	Kit	4
16	Hand Sanitizer	Nos	2
17	Computers/ Laptops	Nos	2
18	Isopropyl Solution	Nos	2
19	Different Colour Plastic Bags With Dustbins (Red)	Nos	1
20	Different Colour Plastic Bags With Dustbins (Blue)	Nos	1
21	Different Colour Plastic Bags With Dustbins (Black)	Nos	1
22	Different Colour Plastic Bags With Dustbins (Yellow)	Nos	1
23	Gloves (Disposable) - Packet	Packets	5
24	Liquid Soap Bottle	Nos	3

*Each Elective: Equipment list as per CDSCO guidelines\* for each category*

#### Classroom Aids

The aids required to conduct sessions in the classroom are:

1. AV Aids
2. Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed)
3. (all software should either be latest version or one/two version below)
4. UPS
5. Scanner cum Printer
6. Computer Tables
7. Computer Chairs
8. LCD Projector
9. White Board/Smart Board 1200mm x 900mm
10. Marker
11. Duster
12. Charts
13. Models
14. Flip Chart

## Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S.No	Organization	Name of Representative	Designation	City/State
1	Marengo Asia Hospitals	Lt Gen AK Das	Group Medical Director	Faridabad, Haryana
2	Kara Vision	Dr. Ashok Kumar Nanda	Director	Bhubaneswar, Odisha
3	Manipal Hospital	Rajashree Upadhyaya	Unit Head- Operation	Bhubaneswar, Odisha
4	SUM Hospital	Prof. Dr. A K Mahapatra	Vice Chancellor	Bhubaneswar, Odisha
5	HCG Panda care	Dr.Subraham Pany	Medical Admin Head	Bhubaneswar, Odisha
6	Sun Hospital	Dr. Deepak Mitra	CMD	Cuttack, Odisha
7	The Neotia University	Dr. Soumen Mukherjee	Associate Professor & Dean	Kolkata, West Bengal
8	Med Institute of Medical Gas Technology Pvt	Dr. Justin Joseph	Chief Technical Advisor (MIMGT), & Postdoctoral Scientist (Centre for Brain research, IISc, Bangalore)	Kochi, Kerala
9	Mass Biomedicals Private Limited	Mr. Snehashis Chakraborty	Managing Director	Delhi
10	Sree Mahalakshmi Technology Solutions	Mrs. Malar Vizhi	Director	Coimbatore, Tamil Nadu
11	Bhaarath Medical College and Hospital	S. Selvaraj	Biomedical Engineer- manager	Chennai, Tamil Nadu
12	Institute of Liver and Biliary Disease (ILBS)	Sarvpriya Singh	Biomedical Engineer- II	New Delhi
13	Geomed Medical Equipment Services	George wellesly M	Senior biomedical engineer	Trichy, Tamilnadu
14	Foundation for Innovations in Health	Prof (Dr.) Satadal Saha	President	Kolkata, West Bengal
15	BVG India Ltd.	Dr Meghana Zende	Head-EMS Training	Maharashtra
16	AIIMS Delhi	Dr Rakesh Garg	Professor	Delhi
17	AIIMS, Raipur, Chhattisgarh	Dr Atul Jindal	Professor	Raipur, Chhattisgarh
18	Delhi Child Heart Center	Dr Vikas Kohli	Director	New Delhi
19	Maharaja Agrasen Hospital, Punjabi Bagh	Dr Deepak Singla	Medical Director	New Delhi

20	Shri Aurobindo Institute of Medical Sciences (SAIMS)	Dr Vinod Bhandari	Founder Chairman	Madhya Pradesh
21	ARAVIND EYE HOSPITAL & POST GRADUATE INSTITUTE OF OPHTHALMOLOGY	DR. R. BANU SHREE	HEAD OF THE GENERAL PHYSICIAN DEPARTMENT	Tamil Nadu
22	Keshayurved Hair & Skin Care Pvt.Ltd.	Dr.Vivek Ambare	Consultant, Keshayurved	Pune, Maharashtra
23	Keshayurved Hair & Skin Care Pvt.Ltd.	Dr.Harish Patankar	Director, Keshayurved	Pune, Maharashtra

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025	2000	70%	NA		NA	
2026	2000	70%	NA		NA	
2027	2000	70%	NA		NA	

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
	2023-24	214	170	163			118			NA			
	2024-25	3396	2783	2630			1467			NA			

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1. PMKVY 4.0
2. ESDM

Content availability for previous versions of qualifications:

Participant Handbook  Facilitator Guide  Digital Content  Qualification Handbook  Any Other:

Languages in which Content is available: English

Annexure: Blended Learning

**Blended Learning Estimated Ratio & Recommended Tools:**

**Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:**

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Code	NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total

HSS/N5616	Deliver, install, set-up medical equipment/devices and provide post-installation instructions to hospital/ facility staff	Perform pre-installation site visit before delivery.	15	20	8	10	53
		Receive, inspect and inventory equipment upon delivery at installation location.	15	20	8	10	53
		Help with the installation of equipment.	10	20	8	10	48
		Complete documentation process related to delivery and installation of equipment.	10	20	8	10	48
		Provide post-installation technical assistance and instruction to the hospital/facility staff on the installed medical equipment operation and maintenance safely and correctly	15	20	8	10	53
HSS/N5617	Diagnose, Repair, Calibrate, maintain, troubleshoot and provide technical assistance for equipment malfunctions	Ensure calibration task is complete within specified departmental time period or manufacturer's recommendations	20	5	5	5	35
		Ensure preventive maintenance tasks are complete within specified departmental time period.	20	5	5	5	35
		Respond to device failures reported by users on-call.	10	5	5	5	25
		Diagnose and repair basic equipment malfunctions on-site.	15	5	5	5	30
		Troubleshoot for major equipment malfunctions.	10	5	2	2	19
		Schedule and oversee third party repair and maintenance work.	15	5	3	3	26
		Carry out proper documentation of calibration, preventive maintenance, on-call and on-site assistance and repairs.	15	5	5	5	30

		Maintain the inventory of the equipment, accessories, spare parts, operating and service manuals and their inventory communication and ensure its proper storage, documentation and retrieval whenever necessary.	15	5	5	5	30
		Maintain orders, supplies and returns of parts or equipment through approved vendors or manufacturers.	15	5		5	25
		Respond to institutional emergencies appropriately.	10	5		2	17
		Ensure self, public and employee safety in and around work areas	10	5		2	17
		Displaying appropriate professional appearance for the workplace.	10	5			15
		Apply self-hygiene and follow infection control guidelines.	10	5		2	17
		Demonstrate correct waste disposal methods as per guidelines and regulations	10	3		2	15
		Demonstrate circular economy practices in the medical device sector.	10	2		2	14
DGT/VSQ/N0101	Employability Skills (30 Hours)	Introduction to Employability Skills	20	30			50
HSS/N5618	Facilitate Biomedical Instrumentation Services for Anesthesiology equipment and devices	Differentiate between normal and abnormal functioning of the anesthesiology equipment and devices.	20	20	15	20	75
		Apply the principles of operation of anesthesiology equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the anesthesiology equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of anesthesiology equipment and devices.	15	20	15	20	70

		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5619	Facilitate Biomedical Instrumentation Services for Pain Management equipment and devices	Differentiate between normal and abnormal functioning of the Pain Management equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Pain Management equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Pain Management equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Pain Management equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5620	Facilitate Biomedical Instrumentation Services for Cardiovascular equipment and devices	Differentiate between normal and abnormal functioning of the Cardiovascular equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Cardiovascular equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Cardiovascular equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Cardiovascular equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65



HSS/N5621	Facilitate Biomedical Instrumentation Services for Dental equipment and devices	Differentiate between normal and abnormal functioning of the Dental equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Dental equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Dental equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Dental equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5622	Facilitate Biomedical Instrumentation Services for Ear, Nose, Throat (ENT) equipment and devices	Differentiate between normal and abnormal functioning of the Ear, Nose, Throat (ENT) equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Ear, Nose, Throat (ENT) equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Ear, Nose, Throat (ENT) equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Ear, Nose, Throat (ENT) equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5623	Facilitate Biomedical Instrumentation Services for Gastroenterological equipment and devices	Differentiate between normal and abnormal functioning of the Gastroenterological equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Gastroenterological equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Gastroenterological equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Gastroenterological equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5624	Facilitate Biomedical Instrumentation Services for Urological equipment and devices	Differentiate between normal and abnormal functioning of the Urological equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Urological equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Urological equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Urological equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5625	Facilitate Biomedical Instrumentation Services for General Hospital equipment and devices	Differentiate between normal and abnormal functioning of the General Hospital equipment and devices.	20	20	15	20	75
		Apply the principles of operation of General Hospital equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the General Hospital equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of General Hospital equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5626	Facilitate Biomedical Instrumentation Services for Operation Theatre (OT) equipment and devices	Differentiate between normal and abnormal functioning of the Operation Theatre (OT) equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Operation Theatre (OT) equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Operation Theatre (OT) equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Operation Theatre (OT) equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5627	Facilitate Biomedical Instrumentation Services for Respiratory equipment and devices	Differentiate between normal and abnormal functioning of the Respiratory equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Respiratory equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Respiratory equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Respiratory equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5628	Facilitate Biomedical Instrumentation Services for Neurological equipment and devices	Differentiate between normal and abnormal functioning of the Neurological equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Neurological equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Neurological equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Neurological equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5629	Facilitate Biomedical Instrumentation Services for Personnel use equipment and devices	Differentiate between normal and abnormal functioning of the Personnel use equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Personnel use equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Personnel use equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Personnel use equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5630	Facilitate Biomedical Instrumentation Services for Obstetrical and Gynaecological (OG) equipment and devices	Differentiate between normal and abnormal functioning of the Obstetrical and Gynaecological (OG) equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Obstetrical and Gynaecological (OG) equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Obstetrical and Gynaecological (OG) equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Obstetrical and Gynaecological (OG) equipment and devices.	15	20	15	20	70

		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5631	Facilitate Biomedical Instrumentation Services for Ophthalmic equipment and devices	Differentiate between normal and abnormal functioning of the Ophthalmic equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Ophthalmic equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Ophthalmic equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Ophthalmic equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5632	Facilitate Biomedical Instrumentation Services for Rehabilitation equipment and devices	Differentiate between normal and abnormal functioning of the Rehabilitation equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Rehabilitation equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Rehabilitation equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Rehabilitation equipment and devices.	15	20	15	20	70

		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5633	Facilitate Biomedical Instrumentation Services for Physical support equipment and devices	Differentiate between normal and abnormal functioning of the Physical support equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Physical support equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Physical support equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Physical support equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5634	Facilitate Biomedical Instrumentation Services for Interventional and Radiology equipment and devices	Differentiate between normal and abnormal functioning of the Interventional and Radiology equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Interventional and Radiology equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Interventional and Radiology equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Interventional and Radiology equipment and devices.	15	20	15	20	70

		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5635	Facilitate Biomedical Instrumentation Services for Rheumatology equipment and devices	Differentiate between normal and abnormal functioning of the Rheumatology equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Rheumatology equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Rheumatology equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Rheumatology equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5636	Facilitate Biomedical Instrumentation Services for Dermatology and Plastic Surgery equipment and devices	Differentiate between normal and abnormal functioning of the Dermatology and Plastic Surgery equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Dermatology and Plastic Surgery equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Dermatology and Plastic Surgery equipment and devices.	10	20	15	20	65



		Maintain defined periodicity of calibration, repair and maintenance of Dermatology and Plastic Surgery equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5637	Facilitate Biomedical Instrumentation Services for Paediatric and Neonatology equipment and devices	Differentiate between normal and abnormal functioning of the Paediatric and Neonatology equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Paediatric and Neonatology equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Paediatric and Neonatology equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Paediatric and Neonatology equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5638	Facilitate Biomedical Instrumentation Services for Oncology equipment and devices	Differentiate between normal and abnormal functioning of the Oncology equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Oncology equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70

		Perform installation and setting-up of the Oncology equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Oncology equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5639	Facilitate Biomedical Instrumentation Services for Radiotherapy equipment and devices	Differentiate between normal and abnormal functioning of the Radiotherapy equipment and devices.	20	20	15	20	75
		Apply the principles of operation of Radiotherapy equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Radiotherapy equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Radiotherapy equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5640	Facilitate Biomedical Instrumentation Services for Nephrology and Renal care equipment and devices	Differentiate between normal and abnormal functioning of the Nephrology and Renal care equipment and devices.	20	20	15	20	75

		Apply the principles of operation of Nephrology and Renal care equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Nephrology and Renal care equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Nephrology and Renal care equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5641	Facilitate Biomedical Instrumentation Services for In-Vitro Diagnostics Devices	Differentiate between normal and abnormal functioning of the In-Vitro Diagnostics Devices.	20	20	15	20	75
		Apply the principles of operation of In-Vitro Diagnostics Devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the In-Vitro Diagnostics Devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of In-Vitro Diagnostics Devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5642	Facilitate Biomedical Instrumentation Services for Ambulance Equipment and Devices	Differentiate between normal and abnormal functioning of the Ambulance Equipment and Devices.	20	20	15	20	75
		Apply the principles of operation of Ambulance Equipment and Devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Ambulance Equipment and Devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Ambulance Equipment and Devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N5643	Facilitate Biomedical Instrumentation Services for Medical Software	Differentiate between normal and abnormal functioning of the Medical Software.	20	20	15	20	75
		Apply the principles of operation of Medical Software during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the Medical Software.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of Medical Software.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

HSS/N5644	Facilitate Biomedical Instrumentation Services for CSSD equipment and devices	Differentiate between normal and abnormal functioning of the CSSD equipment and devices.	20	20	15	20	75
		Apply the principles of operation of CSSD equipment and devices during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the CSSD equipment and devices.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of CSSD equipment and devices.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65
HSS/N0929	Facilitate Biomedical Instrumentation Services for PSA Based Oxygen plants & Medical Gas Pipeline Systems	Differentiate between normal and abnormal functioning of the PSA Based Oxygen plants & Medical Gas Pipeline Systems.	20	20	15	20	75
		Apply the principles of operation of PSA Based Oxygen plants & Medical Gas Pipeline Systems during their inspection, performance evaluation, calibration, testing, etc.	15	20	15	20	70
		Perform installation and setting-up of the PSA Based Oxygen plants & Medical Gas Pipeline Systems.	10	20	15	20	65
		Maintain defined periodicity of calibration, repair and maintenance of PSA Based Oxygen plants & Medical Gas Pipeline Systems.	15	20	15	20	70
		Carry out activities in compliance with all relevant laws, regulations, and codes for technology and technical safety laid down by regulatory bodies.	10	20	15	20	65

## Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

*Mention the detailed assessment strategy in the provided template.*

## 1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

## 2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

## 3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

## 4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

## 5. Method of verification or validation:

- Surprise visit to the assessment location

## 6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

**On the Job:**

1. Each module will be assessed separately.
2. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
  - Videos/Photographs of Trainees during OJT
  - OJT Logbook/Portfolio
3. Assessment of each Module will ensure that the candidate is able to:
  - Effective engagement with the customers
  - Understand the working of various tools and equipment

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
<b>National Occupational Standards (NOS)</b>	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
<b>Qualification</b>	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
<b>Qualification File</b>	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>

