

Revised Application Documentation: Version 5 /25 May 2015

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

Healthcare Sector Skill Council

C/o Confederation of Indian Industry, 23, Institutional Area Lodi Road New Delhi – 110 003

Name and contact details of individual dealing with the submission

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List of documents submitted in support of the Qualifications File (attached in following order)

1. Qualification Pack- Annexure1
2. Occupational Mapping Report-Annexure 2
3. Functional Analysis Report-Annexure 3
4. RFP for development of occupational standards-Annexure 4
5. Validation group and industry consultations- Annexure 5
6. The Brief Report on the whole process of the development, validation and notification of these qualification packs along with list of companies and Industry associations involved -Annexure 6
7. Human Resource & Skills Requirement in Healthcare Sector accessible on below given link:
<http://healthcare-ssc.in/images/Human%20Resource%20&%20Skills%20Requirement%20in%20Healthcare%20sector.pdf>
8. Quality Assurance Strategy of Assessment in HSSC-Annexure 7
9. Assessment criteria/framework-Annexure 8

QUALIFICATION FILE SUMMARY

Qualification Title	Dental Technician (HSS/ Q 5301)		
Body/bodies which will assess candidates	Healthcare Sector Skill Council Accredited Assessing Bodies		
Body/bodies which will award the certificate for the qualification.	Healthcare Sector Skill Council		
Body which will accredit providers to offer the qualification.	Healthcare Sector Skill Council		
Occupation(s) to which the qualification gives access	<p>Dental Technician in the Healthcare Industry is also known as a Dental Laboratory Technician and Dental Mechanics.</p> <p>Brief Job Description: Dental Technician works closely with and in direction from Dentist to fabricate dental prostheses to replace or restore missing or damaged teeth. The work in conjunction with dentist, but have little contact with patients.</p>		
Proposed level of the qualification in the NSQF.	Level 4		
Anticipated volume of training/learning required to complete the qualification.	700 hrs.		
Entry requirements / recommendations.	Class XII or Level 4 Dental Assistant with 2 years of experience in the field		
Progression from the qualification.	<p>Progression will be possible in both academic as well as professional area as:</p> <p>Level 5- Team Leader/ Supervisor –Dental Laboratory</p> <p>or</p> <p>Level 5: Dento Oral Hygienist</p>		
Planned arrangements for RPL.	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		
International comparability where known	While writing the NOSs the UK NOSs were also referred to and an effort was taken to maintain comparability in the technical part of the NOSs.		
Title of unit or other component (include any identification code used)	Mandatory/ Optional	Estimated size (learning hours)	Level
HSS/ N 5301: Assess Case Requirements	Mandatory	Class Room and Skill Lab Training = 510 hours Clinical/Laboratory Training (OJT) = 190 hours	4
HSS/ N 5302: Fabricate Cast	Mandatory		4
HSS/ N 5303: Fabricate Ceramics Dentures Prostheses	Mandatory		4
HSS/ N 5304: Fabricate Partial Removable Dentures	Mandatory		4

Prostheses	Mandatory		4
HSS/ N 5305: Fabricate Completely Removable Dentures	Mandatory		4
Prostheses	Mandatory		4
HSS/ N 5306: Fabricate Fixed Prostheses	Mandatory		4
HSS/ N 5307: Fabricate Orthodontic Appliances	Mandatory		4
HSS/ N 9603: Act within the limits of one's competence and authority	Mandatory		4
HSS/ N 9604: Work effectively with others	Mandatory		4
HSS/ N 9605: Manage work to meet requirements	Mandatory		4
HSS/ N 9606: Maintain a safe, healthy, and secure working environment	Mandatory		4
HSS/ N 9607: Practice Code of conduct while performing duties	Mandatory		4
HSS/ N 9611: Monitor and assure quality	Mandatory		4

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum or Qualification Pack.

Give details of the document here:

Qualification pack is attached as Annexure 1

SECTION 1

ASSESSMENT

Name of assessment body:

If there will be more than one assessment body for this qualification, give details.

Manipal City & Guilds
IRIS corporate solutions pvt ltd
Aspiring Mind
CII

Will the assessment body be responsible for RPL assessment?

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 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

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent 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:
 - 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 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.

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 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
- 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 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
- 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

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
- o QP should be always current version

Assessment process and guidelines are attached as Annexure 7

Please attach any documents giving further information about assessment and/or RPL.

Give details of the document(s) here:

1. **Quality Assurance Strategy of Assessment in HSSC attached as Annexure 7**
2. **Assessment Criteria attached as Annexure 8**

ASSESSMENT EVIDENCE

Complete the following grid for each grouping of NOS, assessment unit or other component as per the assessment criteria. Insert the required number of rows.

Job Role	Dental Technician
Qualification Pack	HSS/ Q 5301

Code	
Sector Skill Council	Healthcare Sector Skill Council

Guidelines for Assessment

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

Skills Practical and Viva (80% weightage)	
	Marks Allotted
Grand Total-1 (Subject Domain)	400
Grand Total-2 (Soft Skills and Communication)	100
Grand Total-(Skills Practical and Viva)	500
Passing Marks (80% of Max. Marks)	400
Theory (20% weightage)	
	Marks Allotted
Grand Total-1 (Subject Domain)	80
Grand Total-2 (Soft Skills and Communication)	20
Grand Total-(Theory)	100
Passing Marks (50% of Max. Marks)	50
Grand Total-(Skills Practical and Viva + Theory)	600
Final Result	Criteria is to pass in both theory and practical individually. If fail in any one of them, then candidate is fail
Detailed Break Up of Marks	Skills Practical & Viva
Subject Domain	Pick any 2 NOS each of 200 marks totaling 400

Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (400)	Out Of	Marks Allocation	
				Viva	Skills Practical
1.HSS/ N 5301 Assess Case Requirements	PC1. Thoroughly understand all the instructions provided by dentists	200	20	5	15
	PC2. Identify the materials and equipment required for fabricating the dental device		20	5	15
	PC3. Assess and evaluate the case in a timely manner		10	0	10
	PC4. Assess risks associated with fabrication of the custom-made dental device		20	5	15
	PC5. Prepare equipment and materials required to fabricate casts		25	5	20
	PC6. Ensure that cast is smooth and is properly cleaned before it is evaluated		25	5	20
	PC7. Assess the quality of impressions, casts and occlusal registration to ensure they are prepared as per the prescription		25	5	20
	PC8. Properly handle the impressions to avoid distortion		20	5	15
	PC9. Properly handle received impressions and other items placed in mouth to control infection		20	5	15
	PC10. Contact the prescribing dentist to discuss queries, issues or concerns about the case		5	2	3
	PC11. Clearly communicate the reason, if not able to fabricate the custom-made dental device		5	2	3
	PC12. Identify and manage potential and actual risks to the quality and safety		5	2	3
	Total			200	46
2.HSS/ N 5302 Fabricate Cast	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	200	8	3	5
	PC2. Thoroughly understand all the instructions provided by dentists		8	3	5
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		8	3	5
	PC4. Identify the materials and equipment required for preparing the cast		10	2	8
	PC5. Prepare equipment and materials required to fabricate casts		10	2	8
	PC6. Prepare master cast using approved die stone, free of bubble, void or damage		20	5	15

	PC7. Ensure that the master cast is produced according to the guidelines and instructions of the dentist		20	5	15
	PC8. Produce opposing cast using approved base former with approved base stone, and free of bubble, void or damage		20	5	15
	PC9. Ensure that the opposing cast is produced according to the guidelines and instructions of the dentist		20	5	15
	PC10. Articulate cast using proper bite registration material and as per the guidelines		20	5	15
	PC11. Ensure that the die is prepared and evaluated according to the guidelines		20	5	15
	PC12. Assess risks associated with preparation of casts and dies		5	2	3
	PC13. Ensure that cast is smooth and is properly cleaned before it is evaluated		5	2	3
	PC14. Assess the quality of casts and dies to ensure they are prepared as per the prescription		5	2	3
	PC15. Properly handle the impressions to avoid distortion		5	2	3
	PC16. Identify and manage potential and actual risks to the quality and safety		2	0	2
	PC17. Ensure timely implementation of appropriate procedures		2	0	2
	PC18. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		2	0	2
	PC19. Establish trust and rapport with colleagues		2	0	2
	PC20. Maintain competence within one's role and field of practice		2	0	2
	PC21. Promote and demonstrate good practice as an individual and as a team member at all times		2	0	2
	PC22. Identify and manage potential and actual risks to the quality and safety of Practice		2	0	2
	PC23. Evaluate and reflect on the quality of one's work and make continuing improvements		2	0	2
	Total		200	51	149
3.HSS/ N 5303 Fabricate Ceramics Dentures Prosthesis	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	200	8	3	5

PC2. Thoroughly understand all the instructions provided by dentists	8	3	5
PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case	10	2	8
PC4. Identify the materials and equipment required for producing the ceramic prostheses	10	2	8
PC5. Prepare equipment and materials required to fabricate the ceramic prostheses	10	2	8
PC6. Prepare substructure to receive porcelain according to the guidelines and instructions	20	5	15
PC7. Prepare ceramic restoration that fits properly to the die margins and cast parameters	20	5	15
PC8. Ensure that the ceramic restoration provides the correct occlusion and articulation as per the requirements	20	5	15
PC9. Ensure that there is adequate retention and fixing to correctly fit the ceramic restoration in mouth	20	5	15
PC10. Ensure that the ceramic restoration should not cause damage to tissues in the mouth of the patient	20	5	15
PC11. Prepare faultless, smooth and properly finished ceramic restoration	20	5	15
PC12. Assess risks associated with preparation of ceramic prostheses	10	2	8
PC13. Ensure that finished ceramic restoration is properly cleaned and quality of the product is checked properly	10	2	8
PC14. Ensure timely implementation of appropriate procedures	2	0	2
PC15. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority	2	0	2
PC16. Establish trust and rapport with colleagues	2	0	2
PC17. Maintain competence within one's role and field of practice	2	0	2
PC18. Promote and demonstrate good practice as an individual and as a team member at all times	2	0	2
PC19. Identify and manage potential and actual risks to the quality and safety of practice	2	0	2
PC20. Evaluate and reflect on the quality of one's work and make continuing improvements	2	0	2

		Total	200	46	154
4.HSS/ N 5304 Fabricate Removable Partial Dentures Prosthesis	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	200	2	0	2
	PC2. Thoroughly understand all the instructions provided by dentists		2	0	2
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		3	1	2
	PC4. Identify the materials and equipment required for producing the ceramic prostheses		3	1	2
	PC5. Prepare equipment and materials required to fabricate the ceramic prostheses		3	1	2
	PC6. Prepare master cast that includes all denture support areas and landmarks necessary to determine border extensions		15	5	10
	PC7. Ensure that the master cast is free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist		15	5	10
	PC8. Ensure that the master cast is properly cleaned before it is evaluated		15	5	10
	PC9. Assess the master cast and design framework		10	2	8
	PC10. Prepare refractory cast free of bubble, void or damage, with approved refractory material		15	5	10
	PC11. Prepare wax pattern that adapts and seals to the refractory cast as per the design		15	5	10
	PC12. Invest the wax pattern that accurately duplicates its shape and anatomic features		10	2	8
	PC13. Burnout the wax pattern and cast the framework with alloy according to the guidelines and instructions		10	2	8
	PC14. Prepare a framework that fits properly to the master cast		15	5	10
	PC15. Evaluate the fit of the framework to the master cast		10	2	8
	PC16. Finish and polish the framework		10	2	8
	PC17. Arrange teeth on the framework as per the instructions of the dentist		10	2	8
	PC18. Prepare the partial denture free of porosity, internal bubbles as per the prescription		15	5	10

	PC19. Ensure that finished ceramic restoration is properly cleaned and quality of the product is checked properly		10	2	8
	PC20. Assess risks associated with preparation of removable partial dentures		3	1	2
	PC21. Ensure timely implementation of appropriate procedures		3	1	2
	PC22. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		1	0	1
	PC23. Establish trust and rapport with colleagues		1	0	1
	PC24. Maintain competence within one's role and field of practice		1	0	1
	PC25. Promote and demonstrate good practice as an individual and as a team member at all times		1	0	1
	PC26. Identify and manage potential and actual risks to the quality and safety of practice		1	0	1
	PC27. Evaluate and reflect on the quality of one's work and make continuing improvements		1	0	1
	Total		200	54	146
5. HSS/ N 5305 Fabricate Complete Dentures Prosthesis	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	200	3	1	2
	PC2. Thoroughly understand all the instructions provided by dentists		3	1	2
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		6	2	4
	PC4. Identify the materials and equipment required for producing the complete denture		6	2	4
	PC5. Prepare equipment and materials required to fabricate the complete denture		10	2	8
	PC6. Ensure that preliminary cast includes all denture support areas and features that define denture borders		15	5	10
	PC7. Prepare custom impression tray and combination tray that provide room for an even controlled thickness of impression thickness		15	5	10
	PC8. Prepare master cast that includes all denture support areas and landmarks necessary to determine border extensions		15	5	10

	PC9. Ensure that the master cast is free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist		15	5	10
	PC10. Ensure that the fabricated baseplate covers the same area as required by the denture and exactly fits the master cast		15	5	10
	PC11. Prepare baseplate that adapts to the occlusion rim and follows the standard dimensions		15	5	10
	PC12. Articulate and index master cast		15	5	10
	PC13. Select and arrange teeth as per anatomical measurements and instructions of the dentist		15	5	10
	PC14. Fabricate the complete denture free of porosity, internal bubbles as per the prescription		15	5	10
	PC15. Ensure that finished complete denture is properly cleaned and quality of the product is checked properly		15	5	10
	PC16. Assess risks associated with preparation of complete dentures		5	2	3
	PC17. Ensure timely implementation of appropriate procedures		5	2	3
	PC18. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		2	0	2
	PC19. Establish trust and rapport with colleagues		2	0	2
	PC20. Maintain competence within one's role and field of practice		2	0	2
	PC21. Promote and demonstrate good practice as an individual and as a team member at all times		2	0	2
	PC22. Identify and manage potential and actual risks to the quality and safety of practice		2	0	2
	PC23. Evaluate and reflect on the quality of one's work and make continuing improvements		2	0	2
	Total		200	62	138
6.HSS/ N 5306 Fabricate Fixed Prostheses	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	200	2	0	2
	PC2. Thoroughly understand all the instructions provided by dentists		2	0	2
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		4	1	3

	PC4. Identify the materials and equipment required for producing the complete denture		4	1	3
	PC5. Prepare equipment and materials required to fabricate the fixed denture		10	2	8
	PC6. Create wax patterns that adapts to the cast as per the design		20	5	15
	PC7. Sprue and Invest the wax pattern that accurately duplicates its shape and anatomic features		20	5	15
	PC8. Burnout the wax pattern and cast with alloy according to the guidelines and instructions		20	5	15
	PC9. Properly trim dies and marking margins utilising proper magnification		20	5	15
	PC10. Ensure that interproximal contacts are closed on solid cast when seated completely		20	5	15
	PC11. Ensure that passively guided centric relation is used as the reference position for occlusal adjustments		20	5	15
	PC12. Harmonise the facial and lingual with surrounding dentitions		20	5	15
	PC13. Ensure that finished complete denture is properly cleaned and quality of the product is checked properly		20	5	15
	PC14. Assess risks associated with preparation of fixed dentures		3	1	2
	PC15. Ensure timely implementation of appropriate procedures		3	1	2
	PC16. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		2	0	2
	PC17. Establish trust and rapport with colleagues		2	0	2
	PC18. Maintain competence within one's role and field of practice		2	0	2
	PC19. Promote and demonstrate good practice as an individual and as a team member at all times		2	0	2
	PC20. Identify and manage potential and actual risks to the quality and safety of practice		2	0	2
	PC21. Evaluate and reflect on the quality of one's work and make continuing improvements		2	0	2
	Total		200	46	154
7.HSS/ N 5307 Fabricate	PC1. Ensure treatment of all materials received and other items placed in mouth as	200	2	0	2

Orthodontic Appliances	required by the infection control procedures			
	PC2. Thoroughly understand all the instructions provided by dentists	2	0	2
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case	5	2	3
	PC4. Identify the materials and equipment required for producing the complete denture	5	2	3
	PC5. Prepare equipment and materials required to fabricate the orthodontic appliance	10	2	8
	PC6. Prepare study cast free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist	14	4	10
	PC7. Articulate study cast using proper bite registration material and as per the guidelines	14	4	10
	PC8. Evaluate study cast and design, and identify required components to fabricate the appliance	14	4	10
	PC9. Fabricate matrixes ensuring that proper size stainless steel band fits the cast, without causing any occlusal interference	14	4	10
	PC10. Create stainless steel band that adapts to the tooth and matched the tissue contour on the cast	14	4	10
	PC11. Select wire of correct gauge and material based on the type of teeth	14	4	10
	PC12. Accurately solder parts of the component	14	4	10
	PC13. Ensure that the component properly fits the cast, without damaging surrounding tissues in the mouth	14	4	10
	PC14. Finish and polish the appliance	14	4	10
	PC15. Ensure that the finished appliance is free of porosity and internal bubbles	14	4	10
	PC16. Ensure that finished appliance is properly cleaned and quality of the product is checked properly	14	4	10
	PC17. Assess risks associated with preparation of orthodontic appliances	5	2	3
	PC18. Ensure timely implementation of appropriate procedures	5	2	3
	PC19. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority	2	0	2
	PC20. Establish trust and rapport with colleagues	2	0	2

	PC21. Maintain competence within one's role and field of practice		2	0	2
	PC22. Promote and demonstrate good practice as an individual and as a team member at all times		2	0	2
	PC23. Identify and manage potential and actual risks to the quality and safety of practice		2	0	2
	PC24. Evaluate and reflect on the quality of one's work and make continuing improvements		2	0	2
Total			200	54	146
Grand Total-1 (Subject Domain)			400		
Soft Skills and Communication			Pick one field from both parts each carrying 50 marks totaling 100		
Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (100)	Out Of	Marks Allocation	
				Viva	Observation/ Role Play
Part 1 (Pick one field randomly carrying 50 marks)					
1. Attitude					
HSS/ N 9603 (Act within the limits of one's competence and authority)	PC1. Adhere to legislation, protocols and guidelines relevant to one's role and field of practice	50	5	0	5
	PC2. Work within organisational systems and requirements as appropriate to one's role		5	0	5
	PC3. Recognise the boundary of one's role and responsibility and seek supervision when situations are beyond one's competence and authority		12	6	6
	PC4. Maintain competence within one's role and field of practice		4	0	4
	PC5. Use relevant research based protocols and guidelines as evidence to inform one's practice		6	3	3
	PC6. Promote and demonstrate good practice as an individual and as a team member at all times		6	3	3
	PC7. Identify and manage potential and actual risks to the quality and safety of practice		6	3	3
	PC8. Evaluate and reflect on the quality of one's work and make continuing improvements		6	3	3
			50	18	32
2. Attiquete					

HSS/ N 9607 (Practice Code of conduct while performing duties)	PC1. Adhere to protocols and guidelines relevant to the role and field of practice	50	6	2	4
	PC2. Work within organisational systems and requirements as appropriate to the role		6	2	4
	PC3. Recognise the boundary of the role and responsibility and seek supervision when situations are beyond the competence and authority		6	2	4
	PC4. Maintain competence within the role and field of practice		4	0	4
	PC5. Use protocols and guidelines relevant to the field of practice		10	5	5
	PC6. Promote and demonstrate good practice as an individual and as a team member at all times		4	0	4
	PC7. Identify and manage potential and actual risks to the quality and patient safety		4	0	4
	PC8. Maintain personal hygiene and contribute actively to the healthcare ecosystem		10	5	5
			50	16	34

3. Work Management

HSS/ N 9605 (Manage work to meet requirements)	PC1. Clearly establish, agree, and record the work requirements	50	20	10	10
	PC2. Utilise time effectively		6	0	6
	PC3. Ensure his/her work meets the agreed requirements		6	0	6
	PC4. Treat confidential information correctly		6	6	0
	PC5. Work in line with the organisation's procedures and policies and within the limits of his/her job role		12	6	6
				50	22
Work Management Total		50	50	22	28

Part 2 (Pick one field as per NOS marked carrying 50 marks)

1. Team Work

HSS/ N 9604 (Work effectively with others)	PC1. Communicate with other people clearly and effectively	50	3	0	3
	PC2. Integrate one's work with other people's work effectively		3	0	3
	PC3. Pass on essential information to other people on timely basis		3	0	3
	PC4. Work in a way that shows respect for other people		3	0	3
	PC5. Carry out any commitments made to other people		6	6	0
	PC6. Reason out the failure to fulfil commitment		6	6	0

	PC7. Identify any problems with team members and other people and take the initiative to solve these problems		16	8	8
	PC8. Follow the organisation's policies and procedures		10	4	6
			50	24	26
2. Safety management					
HSS/ N 9606 (Maintain a safe, healthy, and secure working environment)	PC1. Identify individual responsibilities in relation to maintaining workplace health safety and security requirements	50	6	2	4
	PC2. Comply with health, safety and security procedures for the workplace		4	0	4
	PC3. Report any identified breaches in health, safety, and security procedures to the designated person		4	3	1
	PC4. Identify potential hazards and breaches of safe work practices		6	4	2
	PC5. Correct any hazards that individual can deal with safely, competently and within the limits of authority		6	4	2
	PC6. Promptly and accurately report the hazards that individual is not allowed to deal with, to the relevant person and warn other people who may get affected		6	4	2
	PC7. Follow the organisation's emergency procedures promptly, calmly, and efficiently		6	2	4
	PC8. Identify and recommend opportunities for improving health, safety, and security to the designated person		6	4	2
	PC9. Complete any health and safety records legibly and accurately		6	2	4
				50	25
3. Quality Assurance					
HSS/ N 9611: Monitor and assure quality	PC1. Conduct appropriate research and analysis	50	6	2	4
	PC2. Evaluate potential solutions thoroughly		8	4	4
	PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry		4	0	4
	PC4. Read Dental hygiene, dental and medical publications related to quality consistently and thoroughly		8	4	4
	PC5. Report any identified breaches in health, safety, and security procedures to the designated person		4	2	2
	PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority		4	4	0

	PC7. Promptly and accurately report any hazards that he/she is not allowed to deal with to the relevant person and warn other people who may be affected		4	4	0
	PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently		4	4	0
	PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person		4	4	0
	PC10. Complete any health and safety records legibly and accurately		4	4	0
			50	32	18
Grand Total-2 (Soft Skills and Communication)		100			
Detailed Break Up of Marks		Theory			
Subject Domain		Select each NOS totaling 80			
Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (80)	Marks Allocation		
			Theory		
1.HSS/ N 5301 Assess Case Requirements	PC1. Thoroughly understand all the instructions provided by dentists	8	8		
	PC2. Identify the materials and equipment required for fabricating the dental device				
	PC3. Assess and evaluate the case in a timely manner				
	PC4. Assess risks associated with fabrication of the custom-made dental device				
	PC5. Prepare equipment and materials required to fabricate casts				
	PC6. Ensure that cast is smooth and is properly cleaned before it is evaluated				
	PC7. Assess the quality of impressions, casts and occlusal registration to ensure they are prepared as per the prescription				
	PC8. Properly handle the impressions to avoid distortion				
	PC9. Properly handle received impressions and other items placed in mouth to control infection				
	PC10. Contact the prescribing dentist to discuss queries, issues or concerns about the case				
	PC11. Clearly communicate the reason, if not able to fabricate the custom-made dental device				

	PC12. Identify and manage potential and actual risks to the quality and safety		
	Total		8
2.HSS/ N 5302 Fabricate Cast	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	12	12
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for preparing the cast		
	PC5. Prepare equipment and materials required to fabricate casts		
	PC6. Prepare master cast using approved die stone, free of bubble, void or damage		
	PC7. Ensure that the master cast is produced according to the guidelines and instructions of the dentist		
	PC8. Produce opposing cast using approved base former with approved base stone, and free of bubble, void or damage		
	PC9. Ensure that the opposing cast is produced according to the guidelines and instructions of the dentist		
	PC10. Articulate cast using proper bite registration material and as per the guidelines		
	PC11. Ensure that the die is prepared and evaluated according to the guidelines		
	PC12. Assess risks associated with preparation of casts and dies		
	PC13. Ensure that cast is smooth and is properly cleaned before it is evaluated		
	PC14. Assess the quality of casts and dies to ensure they are prepared as per the prescription		
	PC15. Properly handle the impressions to avoid distortion		
	PC16. Identify and manage potential and actual risks to the quality and safety		
	PC17. Ensure timely implementation of appropriate procedures		
	PC18. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		
	PC19. Establish trust and rapport with colleagues		

	PC20. Maintain competence within one's role and field of practice		
	PC21. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC22. Identify and manage potential and actual risks to the quality and safety of Practice		
	PC23. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		12
3.HSS/ N 5303 Fabricate Ceramics Dentures Prostheses	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures		
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for producing the ceramic prostheses		
	PC5. Prepare equipment and materials required to fabricate the ceramic prostheses		
	PC6. Prepare substructure to receive porcelain according to the guidelines and instructions		
	PC7. Prepare ceramic restoration that fits properly to the die margins and cast parameters		
	PC8. Ensure that the ceramic restoration provides the correct occlusion and articulation as per the requirements	12	12
	PC9. Ensure that there is adequate retention and fixing to correctly fit the ceramic restoration in mouth		
	PC10. Ensure that the ceramic restoration should not cause damage to tissues in the mouth of the patient		
	PC11. Prepare faultless, smooth and properly finished ceramic restoration		
	PC12. Assess risks associated with preparation of ceramic prostheses		
	PC13. Ensure that finished ceramic restoration is properly cleaned and quality of the product is checked properly		
	PC14. Ensure timely implementation of appropriate procedures		
	PC15. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		

	PC16. Establish trust and rapport with colleagues		
	PC17. Maintain competence within one's role and field of practice		
	PC18. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC19. Identify and manage potential and actual risks to the quality and safety of practice		
	PC20. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		12
4.HSS/ N 5304 Fabricate Removable Partial Dentures Prostheses	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures		
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for producing the ceramic prostheses		
	PC5. Prepare equipment and materials required to fabricate the ceramic prostheses		
	PC6. Prepare master cast that includes all denture support areas and landmarks necessary to determine border extensions		
	PC7. Ensure that the master cast is free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist	12	12
	PC8. Ensure that the master cast is properly cleaned before it is evaluated		
	PC9. Assess the master cast and design framework		
	PC10. Prepare refractory cast free of bubble, void or damage, with approved refractory material		
	PC11. Prepare wax pattern that adapts and seals to the refractory cast as per the design		
	PC12. Invest the wax pattern that accurately duplicates its shape and anatomic features		
	PC13. Burnout the wax pattern and cast the framework with alloy according to the guidelines and instructions		
	PC14. Prepare a framework that fits properly to the master cast		

	PC15. Evaluate the fit of the framework to the master cast		
	PC16. Finish and polish the framework		
	PC17. Arrange teeth on the framework as per the instructions of the dentist		
	PC18. Prepare the partial denture free of porosity, internal bubbles as per the prescription		
	PC19. Ensure that finished ceramic restoration is properly cleaned and quality of the product is checked properly		
	PC20. Assess risks associated with preparation of removable partial dentures		
	PC21. Ensure timely implementation of appropriate procedures		
	PC22. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		
	PC23. Establish trust and rapport with colleagues		
	PC24. Maintain competence within one's role and field of practice		
	PC25. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC26. Identify and manage potential and actual risks to the quality and safety of practice		
	PC27. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		12
5. HSS/ N 5305 Fabricate Complete Dentures Prostheses	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	12	12
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for producing the complete denture		
	PC5. Prepare equipment and materials required to fabricate the complete denture		
	PC6. Ensure that preliminary cast includes all denture support areas and features that define denture borders		

PC7. Prepare custom impression tray and combination tray that provide room for an even controlled thickness of impression thickness	
PC8. Prepare master cast that includes all denture support areas and landmarks necessary to determine border extensions	
PC9. Ensure that the master cast is free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist	
PC10. Ensure that the fabricated baseplate covers the same area as required by the denture and exactly fits the master cast	
PC11. Prepare baseplate that adapts to the occlusion rim and follows the standard dimensions	
PC12. Articulate and index master cast	
PC13. Select and arrange teeth as per anatomical measurements and instructions of the dentist	
PC14. Fabricate the complete denture free of porosity, internal bubbles as per the prescription	
PC15. Ensure that finished complete denture is properly cleaned and quality of the product is checked properly	
PC16. Assess risks associated with preparation of complete dentures	
PC17. Ensure timely implementation of appropriate procedures	
PC18. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority	
PC19. Establish trust and rapport with colleagues	
PC20. Maintain competence within one's role and field of practice	
PC21. Promote and demonstrate good practice as an individual and as a team member at all times	
PC22. Identify and manage potential and actual risks to the quality and safety of practice	
PC23. Evaluate and reflect on the quality of one's work and make continuing improvements	
Total	12

6.HSS/ N 5306 Fabricate Fixed Prostheses	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures	12	12
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for producing the complete denture		
	PC5. Prepare equipment and materials required to fabricate the fixed denture		
	PC6. Create wax patterns that adapts to the cast as per the design		
	PC7. Sprue and Invest the wax pattern that accurately duplicates its shape and anatomic features		
	PC8. Burnout the wax pattern and cast with alloy according to the guidelines and instructions		
	PC9. Properly trim dies and marking margins utilising proper magnification		
	PC10. Ensure that interproximal contacts are closed on solid cast when seated completely		
	PC11. Ensure that passively guided centric relation is used as the reference position for occlusal adjustments		
	PC12. Harmonise the facial and lingual with surrounding dentitions		
	PC13. Ensure that finished complete denture is properly cleaned and quality of the product is checked properly		
	PC14. Assess risks associated with preparation of fixed dentures		
	PC15. Ensure timely implementation of appropriate procedures		
	PC16. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		

	PC17. Establish trust and rapport with colleagues		
	PC18. Maintain competence within one's role and field of practice		
	PC19. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC20. Identify and manage potential and actual risks to the quality and safety of practice		
	PC21. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		12
7.HSS/ N 5307 Fabricate Orthodontic Appliances	PC1. Ensure treatment of all materials received and other items placed in mouth as required by the infection control procedures		
	PC2. Thoroughly understand all the instructions provided by dentists		
	PC3. Contact the prescribing dentist to discuss queries, issues or concerns about the case		
	PC4. Identify the materials and equipment required for producing the complete denture		
	PC5. Prepare equipment and materials required to fabricate the orthodontic appliance		
	PC6. Prepare study cast free of bubble, void or damage, and produced according to the guidelines and instructions of the dentist		
	PC7. Articulate study cast using proper bite registration material and as per the guidelines	12	12
	PC8. Evaluate study cast and design, and identify required components to fabricate the appliance		
	PC9. Fabricate matrixes ensuring that proper size stainless steel band fits the cast, without causing any occlusal interference		
	PC10. Create stainless steel band that adapts to the tooth and matched the tissue contour on the cast		
	PC11. Select wire of correct gauge and material based on the type of teeth		
	PC12. Accurately solder parts of the component		
	PC13. Ensure that the component properly fits the cast, without damaging surrounding tissues in the mouth		
	PC14. Finish and polish the appliance		

	PC15. Ensure that the finished appliance is free of porosity and internal bubbles		
	PC16. Ensure that finished appliance is properly cleaned and quality of the product is checked properly		
	PC17. Assess risks associated with preparation of orthodontic appliances		
	PC18. Ensure timely implementation of appropriate procedures		
	PC19. Recognise the boundary of one's role and responsibility and seek supervision from superior when situations are beyond one's competence and authority		
	PC20. Establish trust and rapport with colleagues		
	PC21. Maintain competence within one's role and field of practice		
	PC22. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC23. Identify and manage potential and actual risks to the quality and safety of practice		
	PC24. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		12
Grand Total-1 (Subject Domain)		80	80
Soft Skills and Communication		Select each part each carrying 10 marks totaling 20	
Assessable Outcomes	Assessment Criteria for the Assessable Outcomes	Total Marks (20)	Marks Allocation
			Theory
Part 1 (Pick one field randomly carrying 50 marks)			
1. Attitude			
HSS/ N 9603 (Act within the limits of one's competence and authority)	PC1. Adhere to legislation, protocols and guidelines relevant to one's role and field of practice	4	4
	PC2. Work within organisational systems and requirements as appropriate to one's role		
	PC3. Recognise the boundary of one's role and responsibility and seek supervision when situations are beyond one's competence and authority		
	PC4. Maintain competence within one's role and field of practice		

	PC5. Use relevant research based protocols and guidelines as evidence to inform one's practice		
	PC6. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC7. Identify and manage potential and actual risks to the quality and safety of practice		
	PC8. Evaluate and reflect on the quality of one's work and make continuing improvements		
	Total		4
HSS/ N 9607 (Practice Code of conduct while performing duties)	PC1. Adhere to protocols and guidelines relevant to the role and field of practice	4	4
	PC2. Work within organisational systems and requirements as appropriate to the role		
	PC3. Recognise the boundary of the role and responsibility and seek supervision when situations are beyond the competence and authority		
	PC4. Maintain competence within the role and field of practice		
	PC5. Use protocols and guidelines relevant to the field of practice		
	PC6. Promote and demonstrate good practice as an individual and as a team member at all times		
	PC7. Identify and manage potential and actual risks to the quality and patient safety		
	PC8. Maintain personal hygiene and contribute actively to the healthcare ecosystem		
	Total		4
Attitude Total		4	8
2. Work Management			
HSS/ N 9605 (Manage work to meet requirements)	PC1. Clearly establish, agree, and record the work requirements	2	2
	PC2. Utilise time effectively		
	PC3. Ensure his/her work meets the agreed requirements		
	PC4. Treat confidential information correctly		
	PC5. Work in line with the organisation's procedures and policies and within the limits of his/her job role		
	Total		2
Work Management Total		2	2
Part 1 Total		10	10

Part 2 (Pick one field as per NOS marked carrying 50 marks)

1. Team Work

HSS/ N 9604 (Work effectively with others)	PC1. Communicate with other people clearly and effectively	2	2
	PC2. Integrate one's work with other people's work effectively		
	PC3. Pass on essential information to other people on timely basis		
	PC4. Work in a way that shows respect for other people		
	PC5. Carry out any commitments made to other people		
	PC6. Reason out the failure to fulfil commitment		
	PC7. Identify any problems with team members and other people and take the initiative to solve these problems		
	PC8. Follow the organisation's policies and procedures		
Total			2

2. Safety management

HSS/ N 9606 (Maintain a safe, healthy, and secure working environment)	PC1. Identify individual responsibilities in relation to maintaining workplace health safety and security requirements	4	4
	PC2. Comply with health, safety and security procedures for the workplace		
	PC3. Report any identified breaches in health, safety, and security procedures to the designated person		
	PC4. Identify potential hazards and breaches of safe work practices		
	PC5. Correct any hazards that individual can deal with safely, competently and within the limits of authority		
	PC6. Promptly and accurately report the hazards that individual is not allowed to deal with, to the relevant person and warn other people who may get affected		
	PC7. Follow the organisation's emergency procedures promptly, calmly, and efficiently		
	PC8. Identify and recommend opportunities for improving health, safety, and security to the designated person		
	PC9. Complete any health and safety records legibly and accurately		
Total			4

3. Quality Assurance

HSS/ N 9611:	PC1. Conduct appropriate research and	4	4
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Monitor and assure quality	analysis		
	PC2. Evaluate potential solutions thoroughly		
	PC3. Participate in education programs which include current techniques, technology and trends pertaining to the dental industry		
	PC4. Read Dental hygiene, dental and medical publications related to quality consistently and thoroughly		
	PC5. Report any identified breaches in health, safety, and security procedures to the designated person		
	PC6. Identify and correct any hazards that he/she can deal with safely, competently and within the limits of his/her authority		
	PC7. Promptly and accurately report any hazards that he/she is not allowed to deal with to the relevant person and warn other people who may be affected		
	PC8. Follow the organisation's emergency procedures promptly, calmly, and efficiently		
	PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person		
	PC10. Complete any health and safety records legibly and accurately		
Total			4
Part 2 Total		10	10
Grand Total-2 (Soft Skills and Communication)			20

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

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. Governing council of HSSC gave final approval and endorsement for the same.

What is the estimated uptake of this qualification and what is the basis of this estimate?

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. The link to NSDC Human Resource & Skills Requirement in Healthcare Sector is <http://healthcare-ssc.in/images/Human%20Resource%20&%20Skills%20Requirement%20in%20Healthcare%20sector.pdf>

- Feedback from industry for demand though again sample size may not lend to accurate figures
- Training duration, and current and potential training capacity envisaged
- An LMIS development initiative is being put in place to be more precise regarding the demand and supply

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

- NSDC list of Approved and Under-Development QPs was checked prior to commissioning the work
- Is being sent to NSDC QRC team for the confirmation of the same

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?

- 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 two year time

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

1. **Occupational Mapping Report-Annexure 2**
2. **Functional Analysis Report-Annexure 3**
3. **RFP for development of occupational standards-Annexure 4**
4. **Validation group and industry consultations- Annexure 5**
5. **The Brief Report on the whole process of the development, validation and notification of these qualification packs along with list of companies and Industry associations involved -Annexure 6**
6. **Human Resource & Skills Requirement in Healthcare Sector accessible on below given link:**

<http://healthcare-ssc.in/images/Human%20Resource%20&%20Skills%20Requirement%20in%20Healthcare%20sector.pdf>

SECTION 3

SUMMARY OF DIRECT EVIDENCE OF LEVEL

Justify the NSQF level allocated to the QP. Relate information about the job role and build upon the five descriptors for the level to justify.

Generic NOS is/are linked to the overall authority attached to the job role.

Qualification Title and Classification Code Dental Technician (HSS/ Q 5301)					
Process required	Professional knowledge	Professional skill	Core skill	Responsibility	Level
Dental Technicians works closely with and in direction from Dentist to fabricate dental	The Dental Technicians requires the individual to work in collaboration with Dentists and other members of the oral healthcare	Dental Technicians is expected to Assess Case Requirements, Fabricate Cast, Fabricate Ceramics Dentures Prosthesis, Fabricate Partial	Dental Technicians requires to work closely with and in direction from Dentist to fabricate dental	Dental Technicians work in a dental lab to fabricate dental prostheses to replace or	4

<p>prostheses to replace or restore missing or damaged teeth. The work in conjunction with dentist, but have little contact with patients. This is an activity of a routine nature in a situation of clear choice as demanded by the workplace.</p>	<p>team and deliver the healthcare services. The individual should be result oriented. The individual should also be able to demonstrate clinical skills, communication skills and ethical behaviour. Individuals must always perform their duties in a calm, reassuring and efficient manner.</p>	<p>Removable Dentures Prostheses, Fabricate Completely Removable Dentures Prostheses, Fabricate Fixed Prostheses, Fabricate Orthodontic Appliances. All these are activities that require him/her to demonstrate his practical skill, as per the scope of the job role, using appropriate tool, quality concepts, responsible for carrying out range of activities, requiring either laid down approach or may adopt alternative approaches as per the best evidenced practices.</p>	<p>prostheses to replace or restore missing or damaged teeth. The work in conjunction with dentist, but have little contact with patients. Individuals must always perform their duties in a calm, reassuring and efficient manner. This requires communication skills (written or oral) with required clarity and indicates that he/she should have the basic understanding of social, political and natural environment.</p>	<p>restore missing or damaged teeth. This is critical as it indicates that the person is responsible for his own work and learning. This is further reconfirmed by the fact that The Dental Technician is expected to learn and improve his/her practice while on the job and is referred as "skilled workers".</p>	
Level: 4	Level: 4	Level: 4	Level: 4	Level: 4	4

OTHER EVIDENCE OF LEVEL [This need only be filled in where evidence other than primary outcomes was used to allocate a level] **(Optional)**

- In the process of validation by Industry through various training provider & stake holders

Summary of other evidence (if used): NA

SECTION 4

EVIDENCE OF RECOGNITION OR PROGRESSION

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?

Horizontal and vertical mobility options have been articulated.

Please attach any documents giving further information about any of the topics above.

Give details of the document(s) here:

1. **Occupational Mapping Report-Annexure 2**
2. **Functional Analysis Report-Annexure 3**
3. **Validation group and industry consultations- Annexure 5**
4. **The Brief Report on the whole process of the development, validation and notification of these qualification packs along with list of companies and Industry associations involved -Annexure 6**