

NSQF QUALIFICATION FILE GUIDANCE

Version 6: Draft of 24 May 2017

NSDA Reference

To be added by NSDA

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Directorate General of Training (DGT),
Ministry of Skill Development & Entrepreneurship (MoSDE)
Shram Shakti Bhawan, Rafi Marg,
New Delhi

Name and contact details of individual dealing with the submission

Name: Smt Sandhya Salwan

Position in the organisation: Director (SDI)

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List of documents submitted in support of the Qualifications File

Qualification document – GLASS FITTER (GLASS PANELLING AND GLAZING)

1. Curriculum for GLASS FITTER (GLASS PANELLING AND GLAZING) and preservation Sector for Modular Employable Scheme (MES) (Annexure -1 ,a , b , c)
2. Executive summary (Annexure – 2 , a)
3. List of candidates' placed for this course in 2016-17.
4. Industry validation.
5. NIC/NOC Mapping.

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1. SUMMARY

Qualification Title	GLASS FITTER (GLASS PANELLING AND GLAZING)
Qualification Code	CON 731 (MES)
Nature and purpose of the qualification	NCVT Certificate in job role to occupation involving the glass fitter industries to get job.
Body/bodies which will award the qualification	National Council for Vocational Training (NCVT)
Body which will accredit providers to offer courses leading to the qualification	GOI Ministries and State departments who have adopted MES SDI wing under DGT.
Body/bodies which will carry out assessment of learners	Independent Agency empanelled as Assessing Bodies (Abs) by DGT
Occupation(s) to which the qualification gives access	After completion of the course the trainees shall be qualified for one or more of the following job roles: Glass Fitter
Licensing requirements	-NA-
Level of the qualification in the NSQF	Level 2
Anticipated volume of training/learning required to complete the qualification	350 + 100 Hours
Entry requirements and/or recommendations	Minimum 5 th Standard + 18 years and over
Progression from the qualification	Glass Fitter -> Senior Glass Fitter -> Glass Designer/Entrepreneur/Assistant to Interior Designer
Planned arrangements for the Recognition of Prior learning	<ul style="list-style-type: none"> Testing centres are registered by States on the same line as for VTPs. Candidates desire to get the skills certified have to apply on line or through Testing Centres. Assessing Bodies/assessors will be allotted

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(RPL)	<p>automatically by the IT application. This facility is being provided on the web-portal of SDI scheme. Until then following procedure will be adopted for direct assessment:</p> <ul style="list-style-type: none"> Assessing Bodies are responsible for registration of candidates for testing. It may do so directly or through its designated centres or VTPs. Candidates are allowed to get registered themselves either directly on the portal or through Testing Centre concerned. Assessing Bodies apply online list of candidates to be assessed to respective RDAT who, in turn, acknowledge the same by allotting ABN. RDAT make schedule of trade test, including date, time, list of candidates and location of designated Testing Centre under intimation to AB. AB inform in advance about the courses, candidates list, and requirement of raw material to Testing Centre in advance. ABs are responsible for preparation of question papers both for theory and practical test based on the approved criteria etc. 		
International comparability where known	N A		
Date of planned review of the qualification.	JUNE 2019 (2 years after approval of the Qualification)		
Formal structure of the qualification			
Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours)	Level
Identification & uses of tools & equipment for site work.	M	50 HRS	2
Understand the selection & inspection of the location Glass Panelling and Glazing and able to use basic tools	M	80 HRS	2
Selection of the glass as per requirement of the	M	50 HRS	2

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customers.			
To have Knowledge of measuring , cutting & fixing of the glasses with align works.	M	100 HRS	2
Able to dealing with customer and billing process for Marketing	M	70 HRS	2
Total		350 HRS	
SOFT & ENTREPRENURESHIP SKILLS			
To have the knowledge of good housekeeping, communication skill, motivational skills and concept of entrepreneurship	M	50 HRS	2
Demonstrate aptitude, arithmetic and algebra	M	50 HRS	2
Total		100 HRS	

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

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

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SECTION 1 ASSESSMENT

Body/Bodies which will carry out assessment:

As per the guidelines approved for the SDI ,DGT empanelled Assessing bodies will carry out the assessment

How will RPL assessment be managed and who will carry it out?

- Testing centres are registered by States on the same line as for VTPs. Candidates desire to get the skills certified have to apply on line or through Testing Centres. Assessing Bodies/assessors will be allotted automatically by the IT application. This facility is being provided on the web-portal of SDI scheme. Until then following procedure will be adopted for direct assessment:
- Assessing Bodies are responsible for registration of candidates for testing. It may do so directly or through its designated centres or VTPs.
- Candidates are allowed to get registered themselves either directly on the portal or through Testing Centre concerned.
- Assessing Bodies apply online list of candidates to be assessed to respective RDAT who, in turn, acknowledge the same by allotting ABN. RDAT make schedule of trade test, including date, time, list of candidates and location of designated Testing Centre under intimation to AB.
- AB inform in advance about the courses, candidates list, and requirement of raw material to Testing Centre in advance.
- ABs are responsible for preparation of question papers both for theory and practical test based on the approved criteria etc.

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

Criteria for selection of Assessment body

Minimum Eligibility Criteria

- The applicant shall be a legal entity, registered in India.
- The applicant should have in last two years carried out competency / skill assessment for minimum 1000 persons or should have trained minimum 1000 persons and got tested by some agencies such as NCVT, Sector Skill Council, State, board/ council and reputed industry Association. Organizations having experience in testing of competencies would be preferred.

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- In case more number of applications is received, preference will be given to those organizations that have trained/assessed larger number of persons.
- The applicant is not a Vocational Training Provider in the same sector and in same State in SDI scheme but it can be VTP in other States, other Sectors or other scheme.
- The applicant shall have access to technically qualified personnel of repute and integrity in different industrial trades and technology.
- The applicant shall develop dedicated human resource for handling the processes in SDIS assessment process.
- The applicant shall declare its linkages with other organization(s), if any to ensure independence and avoid any conflict of interest.
- Institutions/ Firms blacklisted by any Government Department shall not be considered in this RFP.
- The Applicant shall provide the information and supporting documents towards their claims.
- Initially provisional empanelment will be awarded to the organizations based on the evaluation of eligibility of the Assessing Body based on the criteria.
- Based on the module and sector that will be handled by the assessor, the assessing body shall send its assessor for competency evaluation in the institutions which will be notified by DGT time to time. The assessor will be assessed to ascertain the competency to carry out competency based assessment under SDIS.
- Final empanelment would be granted subject to the Assessing Body fulfilling the following conditions of getting the competencies of 2 assessors of each module per State evaluated in the institutes notified by the DGT. Testing charges for evaluating the competencies of the assessors will be borne by the Assessing Bodies.

Will the assessment body be responsible for all assessments and for all candidates?

Yes. The assessing body is responsible for all assessments and for all candidates.

Explain how assessment for the qualification will be carried out and quality assured to achieve consistency.

(1) Assessment process: (Mechanism of Assessment)

The assessment process under SDI Scheme aims to test and certify the competency of the persons through Assessing Bodies who seek certification of their skills acquired informally or the persons who have been trained at the registered VTPs. The competency assessment of the candidate is being done the Assessor Competency Evaluation (ACE) qualified assessor of the independent Assessing Bodies (AB) which is not involved in training delivery, to ensure an impartial assessment. In the assessment process of SDIS, identification of competency, ways to measure the competency and deciding on the type of evidence that has to be collected are the responsibility of the Assessing bodies whereas administering the assessment and collecting the evidence and

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reporting the results are the responsibility of the assessors. The assessment process consists of following components:

Theory Test:

- It must assess the knowledge which is essential for a person to do the job. Without this knowledge, the person cannot be able to do the job.
- The questions shall be normally of objective type involving selection of correct response rather than writing sentences.
- The question paper should contain sketches/ diagrams/ photographs/ drawing to overcome the problems of reading comprehension.
- The test shall be of short duration.

Practical Test:

It shall be able to test:

- Manipulative skills to handle tools and equipment.
- Speed in doing work.
- Accuracy maintained
- Quality in workmanship.
- Sequence of performance.
- Economical use of material.
- Neatness & housekeeping.
- All the competencies prescribed in the course curriculum.

The Assessment Parameters adopted during assessment:

- Knowledge of equipment, limitation of use of tools and equipment, and methods & procedure.
- Understanding of functioning of equipment & tool, criteria to be used in selecting tools for given job, and the process of measurement.
- Skill in finishing to required measurement, handling measurement & calculations, handling tools and equipment with ease, finishing neatly.
- Abilities to take corrective steps, use correct work habits, take measurements, complete the job within stipulated time, and adopt safe practices.
- Attitude towards the work, accurate & precise work and co-workers and supervisor.

(2) Duration of Test:

The duration of test vary according to the task. Theory test shall of 1 hour duration and practical test for engineering trade shall be 6 to 8 hours minimum and non-engineering it shall be of 4 hours minimum. Assessing Bodies while preparing practical test shall ensure that candidate shall be tested on all the competencies

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prescribed in the course module.

The marking pattern and distribution of marks for the qualification are as under:

Terminal competency	Maximum marks
Application of knowledge	30
Care for tools & equipment	15
Economic use of materials	15
Safety consciousness	10
Speed	10
Accuracy	15
Quality of workmanship	20
Amount of work	15
No. of attempts	10
Attitude	10
Total maximum marks for Practical	150
Maximum marks for theory	50

(3) Minimum pass mark:

Minimum passing marks for Practical is 60%

Minimum pass marks for theory is 40%

(4) Testing and certifications process for the course:

Pre- Assessment

- RDAT allot batches to the Assessing Bodies on rotational basis depending on the presence of assessing body in that region sector wise and the assessing body in coordination with VTP and assessor should confirm and schedule the assessment.
- The Assessing Body confirm the date of assessment in consultation with VTP and communicate to the RDAT/State.
- The Assessing Body forms a panel of ACE qualified assessors of high repute and integrity SDIS sector wise and location wise.
- The assessment of the candidates is done by the Assessing Bodies in designated Testing Centre (TC). The

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Testing Centre where the assessment is carried out and Testing Centre can be VTP also. The Assessing Body select the TC based on the location, accessibility and the infrastructure facilities available for conducting the test.

- The Assessing Body provide details of selected TC along with skill areas in which assessment can be done at the TC, to the RDAT and respective States/UTs.
- The Assessing Bodies depute ACE qualified assessors for assessments whose details are furnished by Assessing Bodies to DGT in advance.
- Assessing Body has to communicate to the Testing Centre following:
 - Details of the candidates to appear for assessment in various MES courses.
 - Details of Assessors selected with their contact details.
 - Requirement of infrastructure, raw material etc.
 - Testing charges to be reimbursed to Testing Centre

Preparation of assessment tools and prerequisites:

- The assessment tools contain components for testing the knowledge, application of knowledge and demonstration of skill. The knowledge test is objective paper based test or short structured questions based. The application of knowledge is verified based on questioning or seeking response for a case. Demonstration of skill is verified based on practical demonstration by the candidate by using competency checklist.
- The type of assessment tools to be used for assessment are to be prepared in advance by the assessing body in accordance to the guidelines as prescribed below:
 - Define the performance objective – This is based on the course objectives and competency in workplace as prescribed by MES curriculum. The written tests and practical tests assess all the competencies mentioned in course curriculum.
 - In case of practical test, the operations which are to be observed in case of process test (how a particular task is being carried out) are clearly mentioned and the specifications of the final product in case of product test (the task in itself).
 - List of tools, infrastructure, and equipment to carry out the assessment are prepared based on the test instruments that are planned to be used.
 - Written directions are given to the candidates before the task is attempted.
 - Scoring system, observational checklist and rating scale is prepared for each competency which is going to be assessed.
 - The checklist and rating scale have sufficient space to record observations.

Pre-assessment activities for Assessor at the Testing Centre

- Verification of student credentials: The assessor check the application form submitted by the candidates and verify the photo pasted on the forms with candidates who are taking assessment in accordance with

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checklist

- Verification of testing centre for adequate infrastructure, tools and equipment: The assessor verifies the availability of infrastructure, tools and equipment for carrying out both theory and practical assessments. The minimum requirement prescribed under the MES modules is used as benchmark.
- Verification of qualification of instructor: The assessor verifies the qualification and experience of the instructors in the training centre
- Attendance verification: The assessor checks the attendance register of candidates and instructors until the time biometric attendance system is put in place. Once the biometric attendance system is in place, the biometric attendance of assessors along with that of trainees/candidates has to be captured during the assessment at the start as well as end of theory and practical test.
- Attendance during assessment: The assessor takes the attendance of all the students who appear for assessment after the successful verification of the student credentials and before the start of the assessment. The assessor also provides his/her attendance during start and end of the practical and theory test.
- Pre-Assessment checklist: The assessor fill the pre-assessment checklist along with the start time and end time of assessment after verifying all the above tasks as per checklist.
- Verification of the documents related test carried out by VTP/ Testing Centre (TC) for candidates who were not able to produce document in support of having passed the qualification.

Assessment activities

- Before the start of assessment, read out the instructions to the students.
- The written test & practical test is for fixed duration as prescribed.
- It is ensured that individual attention is given to all the candidates during the practical test.
- The assessor takes photographs during the assessment process of all the students in the testing centre, the students during theory and practical tests, practical lab/workshop showing the equipment to be used for assessment, the assessor along with the students appearing for the assessment.

Post-assessment activities

- The assessor consolidates all the theory and practical test papers and ensures that all the mandatory information is filled. The total score for each student should be calculated and recorded in Result sheet.
- The assessor send the attendance sheet, Result sheet, answer papers by courier/post to the assessing body immediately after the completion of assessment
- Uploading outcome of the assessment and photos in portal by assessing body
- Assessing body upload the results within one week of the assessment date.
- Photos taken by the assessors during assessment are sent to respective RDATs through e-mail only. Non dispatch of photos of assessment to RDAT makes assessment void. Re-assessment of such batch is done by the Assessing Bodies on their own expenses.
- Details of assessors are emailed to RDAT at the time of uploading the outcome of the assessment. Outcome

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of the assessment is not accepted in case details of assessors are not emailed to respective RDAT. This procedure is applicable till automatic selection of assessors is provided on the web-portal of SDIS.

- Maintaining assessment records
- Publishing of results and Certificate issue
- RDAT verifies the outcome of the assessment, details of assessors, photos and print and sign the certificates for successful candidates and send it to the respective candidates. In case of direct candidate's assessment, the Certificates are sent to the Assessing Body.
- Certificates which will be issued carry photograph of the trainee, name of VTP, start date & end date of training and duration of training once the systems for the same are put in place.
- The certificate is issues under the aegis of NCVT. All the communications are done through portal.

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

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

ASSESSMENT EVIDENCE

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

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

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Title of Component:

Outcomes to be assessed	Assessment criteria for the outcome	Means of Assessment
Syllabus contents for module of GLASS FITTER (PANELLING AND GLAZING)		
1. Identification & uses of tools & equipment for site work.	<ul style="list-style-type: none"> • Follow the safety precaution to uses of tools & equipment. • Maintain cleanliness of work place • Conduct survey/inspect at site to install glass (glazing). • Divide the area of glazing for right size and thickness and type of glass to be installed. • Prepare site to install glass (glazing). • Measure the site with measuring tape to install glass . • Divide the glass area as per design to install glass (glazing). • Fix the suitable hardware to install glass . • Install the glass for glazing. • Dispose of waste material 	Theory Test Theory Test Practical Test Practical Test Practical Test Practical Test Practical Test Practical Test Practical Test
2. Understand the selection & inspection of the location Glass Panelling and Glazing and able to use basic tools	<ul style="list-style-type: none"> • Follow the safety precaution to install glass partition with aluminium frame or glass with silicon • Maintain cleanliness of work place • Conduct survey/inspect at site to install glass partition with aluminium frame or glass with silicon 	Theory Test Theory Test Practical Test Practical Test

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	<ul style="list-style-type: none"> • Divide the area aluminium frame of glass partition for right size and thickness and type of glass to be installed or glass with silicon • Prepare site to install aluminium frame glass partition or glass with silicon • Measure the site with measuring tape to install aluminium frame glass partition or glass with silicon • Divide the aluminium frame glass partition area as per design to install aluminium frame glass partition or glass with silicon • Fix the suitable hardware to install aluminium frame glass partition or glass with silicon • Install the aluminium frame glass partition or glass with silicon • Dispose of waste material 	<p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p>
<p>3. Selection of the glass as per requirement of the customers.</p>	<ul style="list-style-type: none"> • Follow the safety precaution to install glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Maintain cleanliness of work place • Conduct survey/inspect at site to install glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Prepare site to install glass 	<p>Theory Test</p> <p>Theory Test</p> <p>Practical Test</p> <p>Practical Test</p>

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	<p>walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling.</p> <ul style="list-style-type: none"> • Divide the area of glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling for right size and thickness and type of glass to be installed. • Measure the site with measuring tape to install glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Divide the area as per design to install glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Fix the suitable hardware to install glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Install the glass walls , frameless partition, glass partition doors & windows, glass floor, glass false ceiling. • Dispose of waste material 	<p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p>
<p>4. To have Knowledge of measuring , cutting</p>	<ul style="list-style-type: none"> • Follow the safety precaution to install Glass Panelling 	<p>Theory Test</p>

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<p>& fixing of the glasses with align works.</p>	<p>and Glazing.</p> <ul style="list-style-type: none"> • Maintain cleanliness of work place • Conduct survey/inspect at site to install Glass Panelling and Glazing. • Divide the area of Glass Panelling and Glazing for right size and thickness and type of glass to be installed. • Prepare site to install Glass Panelling and Glazing. • Measure the site with measuring tape to install Glass Panelling and Glazing. • Divide the area as per design to install Glass Panelling and Glazing. • Fix the suitable hardware to install Glass Panelling and Glazing. • Install the Glass Panelling and Glazing. • Dispose of waste material 	<p>Theory Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p> <p>Practical Test</p>
<p>5. Able to dealing with customer and billing process for Marketing .</p>	<ul style="list-style-type: none"> • Follow the safety precaution to dealing with customer and billing process for Marketing . • Maintain records of work place • Conduct survey/inspect at site to dealing with customer and billing process for Marketing . • Prepare billing process to dealing with customer. 	<p>Theory Test</p> <p>Theory Test</p> <p>Practical Test</p> <p>Theory Test</p>

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SOFT & ENTREPRENEURSHIP SKILLS			
6.	<p>To have the knowledge of good housekeeping, communication skill, motivational skills and concept of entrepreneurship</p>	<p>AO1- Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements.</p> <p>AO2- Identify Personal Productive Equipment (PPE) and use the same as per related working environment.</p> <p>AO3- Take necessary precautions for prevention of accidents.</p> <p>AO4- Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site accident/injury procedures.</p> <p>AO5- Identify basic first aid and use them under different circumstances.</p> <p>AO6- Maintain hygiene in office and workplace.</p> <p>AO7- Conduct discussions within team and report to higher authority with minimum required clarity.</p> <p>AO8- Display feedback and questioning technique.</p> <p>AO9- Present good Etiquette and manners.</p> <p>AO10- Display non-verbal</p>	<p>(Theory Test)</p>

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		<p>communication skills.</p> <p>Ao11- Perform effective communication.</p> <p>Ao12- Compose effective messages</p> <p>Ao13- Show good time management technique</p> <p>Ao14- Demonstrate interpersonal skills</p> <p>Ao15- Motivate others /customers</p> <p>Ao16- Demonstrate computer proficiency</p> <p>Ao17- Outline the concepts of entrepreneurship</p>	<p>Practical Test</p> <p>Practical Test</p>
7.	Demonstrate aptitude, arithmetic and algebra	<p>Ao1- Demonstrate aptitude for basic arithmetic and algebra</p> <p>Ao2- Carry out personal banking requirements</p> <p>Ao3- Ability to understand social environment</p> <p>Ao4- Ability to understand natural environment</p>	<p>Practical Test</p> <p>Theory Test</p> <p>Theory Test</p> <p>Theory Test</p>
<p>Means of assessment 1</p> <p>The assessment comprise of</p> <ul style="list-style-type: none"> • Theory Examination MCQ, VIVA Voce • Practical assessment Role plays, Demonstration 			
<p>Pass/Fail</p> <p>The trainee is judged as pass in the qualification if minimum passing marks is obtained in each test i.e Theory and Practical.</p> <p>Minimum pass mark: Minimum passing marks for Practical is 60%</p>			

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Minimum pass marks for theory is 40%

SECTION 2 EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: Glass Fitter (Glass Panelling and Glazing)			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
Process	The job holder is expected to have the Knowledge and skills in the field of work like the trainee carries out routine glass fitting job for different types of residential, commercial interior and exterior glass fixing jobs, involving repetitive	The job requires the limited range of activities routine and predictable like handling the processing, panelling and glazing of different materials, involving repetitive operations along	2

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Title/Name of qualification/component: Glass Fitter (Glass Panelling and Glazing)			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	operations along with the required housekeeping activities and safety measures.		
Professional knowledge	<p>The job holder is required to have knowledge in the related field of work like:</p> <ul style="list-style-type: none"> – The trainee acquires knowledge of glass panelling and glazing, benefits, classification of glass and most common types of glass panelling and glazing, loading and unloading materials, single Glass panel and frameless partitions, double Glass Panels and framed partitions, in a limited context. The trainee also acquires the knowledge of First Aid, and basics of personal hygiene. 	The job holder understands the basic facts , process and principles involved in his job role like basics of glass fitter (Panelling and Glazing)	2
Professional skill	<p>The job holder needs to know and understand :</p> <p>The trainee applies the skill in the installation of glass partition with aluminum frame, plain, designer glass for doors & windows, glass walls, frameless partition doors & windows, glass false ceiling, glass with silicon, and glass floor. The trainee also differentiates good and bad quality. The trainee takes all precautions while carrying out the job.</p>	The job role only includes the maintaining of financial data, accounts, clearance of bills which is routine and repetitive in narrow range of application.	2
Core skill	The trainee, in general, maintains hygiene, demonstrates the ability to receive and transmit	The Assistant will able to prepare and present calculation of materials Can operate Internet to	2

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Title/Name of qualification/component: Glass Fitter (Glass Panelling and Glazing)			Level: 2
NSQF Domain	Outcomes of the Qualification/Component	How the job role relates to the NSQF level descriptors	NSQF Level
	written and oral messages, perform basic arithmetic calculations, carry out personal financing, and understand social, political, and religious diversity.	<p>communicate with the suppliers and consumers for marketing.</p> <p>Candidates attending the course undergo training in 'Soft & Entrepreneurship skills' for 100 hrs to acquire the core skills stipulated for the NSQF level.</p>	
Responsibility	The job holder works under the supervision of his superior, as per his directions. The trainee handles Glass fixing for different types of residential, commercial interior and exterior glass fixing jobs, under instruction and close supervision.	The job holder works under the supervision of Senior Glass Fitter and is not responsible for his own limited work assigned like maintain the records, creating bills/challans as directed by his/her superiors.	2

SECTION 3
EVIDENCE OF NEED

What evidence is there that the qualification is needed?

The construction industry is the second largest industry of the country after agriculture, accounting 11 percent of India’s GDP. Despite this, the industry faces a grave challenge of unskilled workforce. While this sector continues to grow at a rapid pace, it continues to be devoid of skilled manpower. India’s formally skilled workforce is approximately 4% - which is dismally low compared to China (47%), UK (68%), Germany (74%), Japan (80%), or South Korea (96%).

According to KPMG report, the Real Estate and Construction Sector alone needs 45 million additional skilled manpower over the next 10 years.

The sector is highly unorganised, and is the principle industry employing short duration out-migrant. Of the total estimated 15.2 million short duration out-migrants, more than 36.2% are employed in the construction industry alone and more than 80% of the employment in building and construction sector is minimally skilled workforce.

At present, only a meagre 9.8 million construction workers of the total 32 million are registered in the country. Tripura, Manipur and Lakshadweep are the states/UT that employ the highest number of registered workers in construction sector

[Real estate](#) and construction sector is set to become the prime employment generator in India, registering the maximum rise in human resource requirement from 2013-2022, according to [National Skill Development Corporation](#) (NSDC).

India is estimated to need around 76.5 million workers in the building, construction and real estate sector by 2022, with affordable housing, which is expected to need 38 million workforce by 2030 from 29 million at present, predicted to be the key job creator.

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

As per National Skill Development Council report incremental human resource requirement [Pattanaik 2012] across the workforce during 2008-22 is as shown in table 1

Table 1

Incremental Human Resource Requirement across the Workforce during 2008-22 Sr. No.	Profile of people	Number Projected (000’s)
1	Project Mangers and Engineers	473
2	Supervisors	473
3	Foremen	946
4	Crane Operators	7
5	Electricians	473
6	Welders	473
7	Bar Benders	1419
8	Masons	1419
9	Plumbers	1183
10	Carpenters	1892

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11	Surveyors	47
12	Others (glazers, painters, equipment operators)	459
13	Minimally Educated	38,038
14	Total	47302

Estimated human resource requirement (nos. in million)

Sub Sectors	Baseline-2013	2013 Study 2017	2022	2016 Study 2017	2022
Construction of Buildings	35.52	46.55	60.34	47.29	71.38
Demolition and site preparation	0.34	0.45	0.57	0.45	0.68
Electrical plumbing and other construction installation activities	1	1.31	1.69	1.33	2.01
Building completion and finishing	3.27	4.28	5.51	4.38	6.84
Construction of roads and railways	4.28	5.55	6.85	5.61	8.21
Construction of utility projects	0.79	1.02	1.26	1.04	1.51
Construction of other civil engineering projects	0.18	0.23	0.29	0.24	0.35
Other specialized construction activities	0.02	0.03	0.03	0.03	0.04
Total	45.40	59.42	76.55	60.36	91.02

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

The qualification is originally designed and approved by NCVT for the SDI scheme based on Modular Employable Skills. NCVT has been entrusted with the responsibilities of prescribing standards and curricula for Skill Development Initiative Scheme (SDIS) in Modular Employable Skills (MES) format, advising the Government of India on the overall policy and programmes. The Core Group for converting the syllabus checks for any duplication of existing qualifications in the NSQF.

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?

- 1) DGT interacts with training providers to gather feedback in implementation and updation of qualification. Time to time the performance of Training Partners and assessing bodies are reviewed by the concerned RDAT'S for various training methodology ,training aids,certification procedure,skill sets and examination procedure .
- 2) Monitoring of results of assessments
- 3) Employer feedback will be sought post-placement
- 4) In a recent initiative, a Mentor Council (MC) for the relevant sector has been formed to review the curriculum of this qualification under the sector.
- 5) CSTARI, the research wing of DGE&T, reviews and updates the qualification, in consultation with

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industries and other stakeholders, on a regular basis.

The qualification is reviewed after every 2 years for updation according to latest Technologies and practices.

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

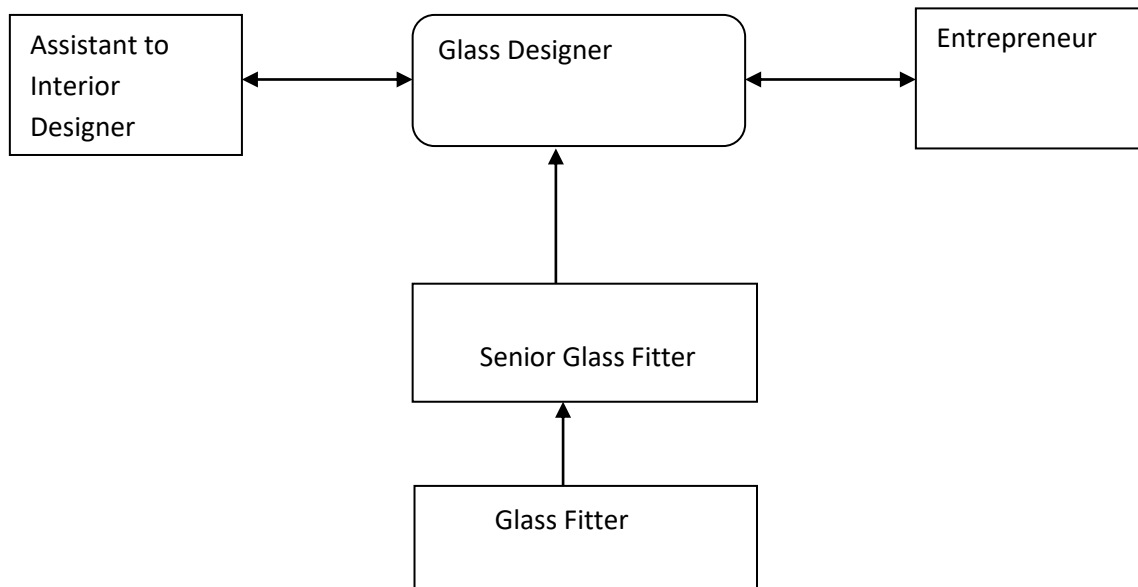
Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

SECTION 4 **EVIDENCE OF PROGRESSION**

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?

Progression chart:

An Individual has vertical and horizontal pathway to promote to higher designations in an organisation. Can further undergo specialization course to excel to the higher post in jobs listed above



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

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

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