

## NSQF QUALIFICATION FILE

### CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

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#### List of documents submitted in support of the Qualifications File

1. Curriculum and Course Content (Annexure I)
2. Letters from Industries/ Employers to establish need of the qualification (Annexure II)
3. Assessment strategy (Annexure III)

#### Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component
- **SUMMARY**

1	<b>Qualification Title:</b>	JUNIOR LIFT ERECTOR
2	<b>Qualification Code, if any -</b>	STC-CON/NSQF-2019/803
3	<b>NCO code and occupation -</b>	
4	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	Short term Certificate Course. To train the class X pass students in 'Junior Lift Erector' trade and make them wage employed or self – employed.
5	<b>Body/bodies which will award the qualification</b>	West Bengal State Council of Technical & Vocational Education and Skill Development.
6	<b>Body which will accredit providers to offer courses leading to the qualification</b>	Committee on Accreditation under the West Bengal State Council of Technical & Vocational Education and Skill Development.
7	<b>Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)</b>	NA

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8	<b>Occupation(s) to which the qualification gives access</b>	Junior Lift Erector has a wide scope of employment ranging from self-employment, contractual employment to Industrial jobs. On successful completion of this course, the candidates shall be gainfully employed in the industries for following occupations: -Lift Erector -Sr. Lift Erector/Supervisor		
9	<b>Job description of the occupation</b>	Fittings and fixing of various lift components and mechanical installation of lift.		
10	<b>Licensing requirements</b>	NA		
11	<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)</b>	NA		
12	<b>Level of the qualification in the NSQF</b>	Level 4		
13	<b>Anticipated volume of training/learning required to complete the qualification</b>	<b>Sl. No.</b>	<b>Course Element</b>	<b>Notional Training Hours</b>
		1	Apply Safe Working Practices	50 (T-15, P-35)
		2	Comply Environment Regulation & House Keeping	30 (T-13, P-17)
		3	Interpret & Use Company & Technical Communication	33 (T-16, P-17)
		4	Understand & Explain Basic Science in the field of study including simple Machine	10 (T-4, P-6)
		5	Plan and Identify Power Transmission	30 (T-10, P-20)
		6	Read & Apply Engineering Drawing for Different Application in the field of work	50 (T-16, P-34)
		7	Understand & Apply the concept in Productivity, Quality Tools & Labour Welfare Legislation in day to day work to improve Productivity & Quality	127 (T-47. P-80)
		8	Understand and practice soft skills	30 (T-10, P-20)
		9	Explain personal Finance, Entrepreneurship & Manage/organize related task in day to day work for personal & societal growth	40 (T-12, P-28)
		10	Exposure to Field Work	100 (P-100)
			<b>Total</b>	<b>500</b>

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14	<b>Indicative list of training tools required to deliver this qualification</b>	As per Annexure - I enclosed with the curriculum		
15	<b>Entry requirements and/or recommendations and minimum age</b>	Class X pass		
16	<b>Progression from the qualification (Please show Professional and academic progression)</b>	<ul style="list-style-type: none"> <li>- Can work as junior lift erector for 2-3 years.</li> <li>- After that he/she qualifies as Lift Erector and thereafter a Senior Lift Erector.</li> <li>- Also can join directly in different Govt. and Private establishments in employment.</li> </ul>		
17	<b>Arrangements for the Recognition of Prior learning (RPL)</b>	RPL will consist of four stages 1. Counselling- To inform, advise and guide the candidates regarding RPL 2. Pre-Assessment- To assess the current competencies of the candidates and identifying the gap between the full qualification and current competencies. 3. Orientation & Bridge Training- To train the candidates for bridging the gap. 4. Final assessment & Certification- To assess the candidate for full qualification and certify.		
18	<b>International comparability Where Known (Research Evidence to be provided)</b>	N/A		
19	<b>Date of planned review of the qualification.</b>	Every 3 years.		
20	<b>Formal structure of the qualification</b>			
Title of component and identification code.		<b>Mandatory/ Optional</b>	<b>Estimated size (learning hours)</b>	<b>Level</b>
Apply Safe Working Practices		Mandatory	50 (T-15, P-35)	4
Comply Environment Regulation & House Keeping		Mandatory	30 (T-13, P-17)	4
interpret and communicate technical details, regulation among the team members and higher authority		Mandatory	33 (T-16, P-17)	4
Understand & Explain Basic Science in the field of study including simple machine		Mandatory	10 (T-4, P-6)	4
Plan and Identify Power Transmission		Mandatory	30 (T-10, P-20)	4
Read & Apply Engineering Drawing for Different Application in the field of work		Mandatory	50 (T-16, P-34)	4
Fixing of different mechanical components of lift.		Mandatory	127 (T-47, P-80)	4
Understand and practice soft skills		Mandatory	30 (T-10, P-20)	4

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Explain personnel Finance, Entrepreneurship & Manage/ organize related task in day to day work for personal & societal growth	Mandatory	40 (T-12, P-28)	4
Exposure to Field Work	Mandatory	100 (P-100)	4
<b>Total</b>		<b>500</b>	<b>4</b>

### **SECTION 1 ASSESSMENT**

<b>21</b>	<p><b>Body/Bodies which will carry out assessment:</b> Board of Examination under West Bengal State Council of Technical &amp; Vocational Education &amp; Skill Development constituted under the ACT XXVI of 2013 under Department of Technical Education, Training &amp; Skill Development, Govt. of West Bengal.</p>
<b>22</b>	<p><b>How will RPL assessment be managed and who will carry it out?</b> RPL arrangement will be for existing uncertified experienced workforce and will consist of four stages</p> <ol style="list-style-type: none"> <li>1. Counselling- To inform, advise and guide the candidates regarding RPL</li> <li>2. Pre-Assessment- To assess the current competencies of the candidates and identifying the gap between the full qualification and current competencies.</li> <li>3. Orientation &amp; Bridge Training- To train the candidates for bridging the gap.</li> <li>4. Final assessment &amp; Certification- To assess the candidate for full qualification and certify.</li> </ol> <p>RPL assessment will be managed by PBSSD (Paschim Banga Society for Skill Development) under Department of Technical Education, Training &amp; Skill Development, Govt. of West Bengal.</p>
<b>23</b>	<p><b>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.</b> Assessment will be carried out by Board of Examination under West Bengal State Council of Technical &amp; Vocational Education &amp; Skill Development, under Department of Technical Education, Training &amp; Skill Development, Govt. of West Bengal.</p> <p>The Council has all necessary infrastructure and pool of qualified Assessors/ Examiners to carry out such assessments. Presently the Council is conducting all examinations for all courses which include Diploma Courses, Vocational Courses in VIII+ level and X+2 level &amp; other Short term Courses. Council also conducts all State Level Entrance tests like JEXPO for admission to Diploma Courses in Polytechnics, VOCLET for lateral entry to Diploma Courses in Polytechnics and CET (Common Entrance Test) for admission to NCVT courses in ITIs.</p>

### **ASSESSMENT EVIDENCE**

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

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

**24. Assessment evidences Title of Component:**

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Outcomes to be assessed/ NOSs to	Assessment criteria for the outcome
1. Able to apply the knowledge of safe working practices as per statutory norms.	1.1 Follow and maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements and according to site policy.
	1.2 Recognize and report all unsafe situations according to site policy.
	1.3 Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
	1.4 Report supervisor/ Competent of authority in the event of accident or sickness of any staff and record accident details correctly according to site
	1.5 Identify and observe site evacuation procedures according to site policy.
	1.6 Identify Personal Protective Equipment (PPE) and use the same as per related working environment.
	1.7 Identify basic first aid and use them under different circumstances.
	1.8 Study of MSDS, information in MSDS, identification of hazardous chemicals, its importance and important sections of key requirements.
2. Able to interpret and communicate technical details, regulation among the team members and higher authority	2.1 Obtain sources of information and recognize information.
	2.2 Use documents and technical regulations and occupationally related provisions.
	2.3 Conduct appropriate and target oriented discussions with higher authority and within the team.
	2.4 Present facts and circumstances, possible solutions & use technical terminology in English or local language.
	2.5 Resolve disputes within the team.
	2.6 Conduct written communication.
3. Able to Plan, identify power transmissions and execution of work on the same.	3.1 Basic knowledge of different types of motors used in lift industries.
	3.2 Basic concept of mechanical power transmission through gear, pulley, deviator.
	3.3 Identify the types of cables & harness.
4. Able to read and apply basic science in engineering drawing for different application in the field of work.	4.1 Read & interpret the information on general engineering drawings and apply in executing practical work.
	4.2 Read & analyze the specification to ascertain the material requirement, tools and assembly/maintenance parameters.
	4.3 Encounter drawings with missing/unspecified key information and make own calculations to fill in missing dimension/parameters to carry out the work.
5. Able to fix different mechanical components of lift.	5.1 Identify the type of hand tools, marking and cutting tools used for sheet metal work, care and maintenance during various practices.

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	5.2 Identify the cutting and measuring tools used for filing, marking and punching practice.
	5.3 Identify the types and specifications of various drills, tap drills and dies used for internal fitting and drilling.
	5.4 Knows work, plan, labour welfare, rules & regulations,
6. Able to routing & connecting panel wiring as per GED.	6.1 Identify different wire.
	6.2 identify different components.
7. Able to execute the civil interface work related to lift installation	7.1 Identification of type of civil construction
	7.2 Fixing of bracket & guide rail
	7.3 Fixing of door panels
	7.4 Knowledge about machine foundation
8. Ability to communicate in English (Soft Skills).	8.1 Accentuation (mode of pronunciation) on simple words, Diction (use of word and speech)
	8.2 Transformation of sentences, Voice change, Change of tense, Spellings. Reading and understanding simple sentences about self, work and environment. Construction of simple sentences, writing simple English.
	8.3 Speaking with preparation on self, on family, on friends, classmates, picture reading gain confidence through role-playing. Taking messages, passing messages on and filling in message forms of Greeting and introductions office hospitality, Resumes or curriculum vita essential parts, letters of application reference to previous communication.
	8.4 Communication and its importance, Principles of Effective communication, Types of communication – verbal, non verbal, written, email, talking on phone. Non verbal communication – characteristics, components-Para-language,
	8.5 Body – language and expressions, Barriers to communication and dealing with barriers, Handling nervousness/ discomfort.
	8.6 Self-awareness, Importance of Commitment, Ethics and Values, Ways to Motivate Oneself, Personal Goal setting and Employability Planning.
	8.7 Manners, Etiquettes, Dress code for an interview, Do's & Don'ts for an interview, Problem Solving, Confidence Building, Attitude.
9. Ability to Explain personal finance, entrepreneurship and manage/organize related task in day to day work for personal & societal growth.	9.1 Explain personal finance and entrepreneurship.
	9.2 Explain role of various schemes and institutes for Self-employment i.e. DIC, SIDA, SISI, NSIC, SIDO, Idea for financing/ non-financing support agencies to familiarize with the policies/ programmes, procedure & the available scheme.
	9.3 Prepare Project report to become an entrepreneur for submission to financial institutions.
10. Able to follow the field work	10.1 To be able to follow safety & house keeping

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independently.	10.2 Follow the Stage wise Erection process
	10.3 Make a Template according to general engineering drawing
	10.4 Machine Hoisting & Mechanical Erection
<b>Means of assessment 2</b>	
<b>I. Means of Formative Assessment (Total marks allotted- 350)</b>	
i) Assignments for each module of Theory component	
ii) Assignments for each module of Employability Skills component	
iii) Continuous evaluation of each module of Practical	
<b>II. Means of Summative Assessment (Total marks allotted- 650)</b>	
i) Written test for Theory component	
ii) Written test for Employability Skills component	
iii) Practical Test & Viva voce for Practical Component.	
Component wise distribution of marks is given in the Annexure III	
<b>Pass/Fail</b>	
Passing criteria is based on marks obtained in Formative and Summative Assessment taken together as mentioned in Annexure No-1	
i) Minimum Marks to pass Theory component- 60%	
ii) Minimum Marks to pass Employability Skills component- 60%	
iii) Minimum Marks to pass practical component- 70%	
Minimum attendance required to appear in the final examination- 75%	

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### SECTION 2

#### 25. EVIDENCE OF LEVEL

##### OPTION A

Title/Name of qualification/component: Junior Lift Erector			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
Process	<ul style="list-style-type: none"> <li>Person may carryout lift erection work with all necessary safety &amp; environmental adherence.</li> </ul>	<p>The individuals has to carry out the lift erection work along with necessary safety and environment adherence. The individual is only expected to know the safety and environment guidelines pertaining to erection of a lift (Electrical &amp; Mechanical Hazards and Hazards from Working in Height). The person is expected to repeat the routine work of lift erection in various sites (Residential complexes, Industries etc.) under the supervision of Expert.</p> <p>Hence the Qualification should be placed at level 4</p>	Level 4
Professional knowledge	<ul style="list-style-type: none"> <li>Safety compliance</li> <li>MSDS</li> <li>Persons are able to identify hand tools, measuring tools along with their use</li> <li>Persons are able to understand different civil /mechanical drawings</li> <li>Basin knowledge of hoisting equipment, motor, gear function</li> </ul>	<p>The person is expected to understand the basic working concepts of a lift along with basic safety norms and interpretation of material safety data sheet (MSDS) and civil/ mechanical drawings. The individual knows basic use of hand tools, measuring tools and basic principle of hoisting equipment, motor, and gear functions.</p> <p>Hence the Qualification should be placed at level 4</p>	Level 4
Professional skill	<ul style="list-style-type: none"> <li>Erection Process</li> <li>Scaffolding</li> <li>Hoisting machine/ gear components, guiderail alignments</li> </ul>	<p>The individual should be able to perform erection process of lift along with scaffolding activities.</p> <p>This process requires practical skills which are routine &amp; repetitive in nature. Hence the Qualification should be placed at level 4</p>	Level 4
Core skill	<ul style="list-style-type: none"> <li>Persons are able to communicate with both the employee and customer in local language.</li> <li>Persons are able to read the erection process &amp; instruction manuals preferably in English.</li> </ul>	<ul style="list-style-type: none"> <li>The individual is expected to be able to communicate with both the employer and customer in local language. The individual should be able to read the erection process &amp; instruction manuals preferably in English. He should be able to understand basic arithmetic functions in</li> </ul>	Level 4



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Title/Name of qualification/component: Junior Lift Erector			Level: 4
NSQF Domain	Outcomes of the Qualification/Component	How the outcomes relates to the NSQF level descriptors	NSQF Level
		order to interpret mechanical/ civil drawings. Hence the Qualification should be placed at level 4	
Responsibility	<ul style="list-style-type: none"> <li>Persons are able to complete the erection process under supervision or responsibility for his own work and learning.</li> </ul>	The individual will be working under the supervision of Lift Erector/ Sr. Lift Erector. Sometimes expected to take sole responsibility of his own work during erection activities. He should be able to interpret mechanical/ civil drawings, MSDS in order to successfully erect the lift. Hence the particular qualification should be levelled at level 4.	Level 4

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**SECTION 3 EVIDENCE OF NEED**

26	<p><b>Need of the qualification</b></p> <p><b>Industry Relevance</b> To understand the requirement of the qualification and Industry relevance, West Bengal State Council of Technical &amp; Vocational Education and Skill Development through Paschim Banga Society of Skill Development has approached multiple industries like Kone. The letter from Kone, West Bengal division is attached at Annexure V as a supporting document.</p> <p><b>Usage of Qualification</b> West Bengal State Council of Technical &amp; Vocational Education and Skill Development has proposed the course “Junior Lift Erector” after receiving multiple feedback from industries like Kone and self-employed lift technicians regarding need of the qualification. The letter (Annexure V) from Industries like Kone have been annex. There is no such similar approved course available in NQR. Hence, Council has proposed this course.</p>
	<p><b>Estimated uptake</b> In India, continuous construction of high rise buildings and growing government expenditure on infrastructure development have spurred wide installation of elevators &amp; escalators. India is the second largest market for elevators &amp; escalators and has good growth potential. It is estimated to be around 50,000 annually. So estimated uptake 1,00,000 (One Lakh annually)</p>
27	<p><b>Recommendation from the concerned Line Ministry of the Government/ Regulatory Body. To be supported by documentary evidences</b></p> <p><b>The letter from Chief Electrical Inspector &amp; Chairman – West Bengal Lift Committee, Government of West Bengal is attached as evidence (Annexure III)</b></p>
28	<p><b>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</b></p> <p>This qualification will be conducted under the West Bengal State Council of Technical &amp; Vocational Education &amp; Skill Development under Department of Technical Education, Training and Skill Development. In the state of West Bengal the Council is affiliating and awarding body for this qualification. Thus there is no other existing or planned qualification (Short term courses) in the state aligned with NSQF.</p>
29	<p><b>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</b></p> <p>The council has three well defined sub-committees namely Board of Studies and Skilling, Board of Examination and Recognition Committee. These committees monitor and review the progress of all qualifications under its purview on a regular basis.</p> <p>This qualification will be reviewed and revised at an interval of three years on the basis of the outcome of the trainees, placement and self-employment data and feedback from concerned industries/employers.</p>

**SECTION 4**

**EVIDENCE OF PROGRESSION**

30

**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?**

***Show the career map here to reflect the clear progression***

Pass outs of this course can get both self and waged employment. Junior Lift Erector has a wide scope of Employability ranging from self-employment, contractual employment to Industrial jobs. On successful completion of this course, the candidates shall be gainfully employed in the industries for following occupations:

- Lift Erector.
- Senior Lift Erector/Supervisor

