

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

State Labour Institute, W.B,

P3, C I T Road, Scheme VII(M),
Maniktala Main Road, Kankurgachi,
Kolkata- 700054. West Bengal

Name and contact details of individual dealing with the submission:

Name : Sri Soumen Chakrabarti.
Position in the organisation : Joint Director of Boilers, W.B.
Address if different from above : Directorate of Boilers, 8th Floor, New
Secretariat Building, 1, Kiron Sankar Roy
Road, Kolkata-700001.
Tel number(s) : Mob No: 9433157317
E-mail address : jd1.doblb-wb@gov.in

List of documents submitted in support of the Qualifications File:

1. Existing Course Approval order of Labour Department, W.B.
2. Prospectus of the existing course.
3. Validation from industries.
4. Copy of Certificate of Advanced Boiler Quality High Pressure Welder.

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training:**
 - 1) Welding Machines with accessories for GTAW, SMAW, SAW and FCAW.
 - 2) Safety Gadgets for Welding.
 - 3) Cutting Machines.
 - 4) Grinding Machines.
- **Trainers qualification:**

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Sl.No	Trainer	Qualification
1	Trainer (Theory)	1. Diploma or Degree in Engineering in Mechanical / Electrical / Metallurgical / Power Plant / Production or equivalent
2	Trainer (Practical)	1. Welder with Certificate as per The Indian Boiler Regulations, 1950. Or 2. ITI or Class X passed with practical knowledge in welding

- **Lesson Plan**
- **Distribution of training duration into theory/practical/OJT component**

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SUMMARY

1	Qualification Title	Advanced Boiler Quality High Pressure Welder.
2	Qualification Code, if any	N/A
3	NCO code and occupation	
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature: Employable specialized training course on Welding Technology specially in the field of boiler, economizer, steam and feed pipe lines.</p> <p>Purpose: These course will impart adequate training both on theoretical and practical to trainees in all aspects of welding. This course will conform to the standard of Boiler and Pressure Vessel welding prescribed for certification tests as per provisions of the Indian Boilers Regulation-1950 conducted by the Competent Authority approved by the Central Boilers Board.</p> <p>This course is designed to provide fundamental theory of welding of different type of materials like Carbon steels, Alloy steels, Stainless steels with various welding processes e.g Oxy-acetylene welding, GTAW, GMAW, SMAW, SAW, FCAW etc. to suit with the Boiler Quality welding with the basic knowledge of of WPS and PQR.</p> <p>The unemployed people can take this training for getting employment.</p> <p>The existing welders can also take this training for upgrading their skill.</p> <p>After passing this course the candidates can get employment in</p> <ol style="list-style-type: none"> i) Industries and firms related to Boiler and Pressure vessels. ii) Fabrication Industries. <p>After completion of course the successful candidates with one year of</p>

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		practical experience will be eligible to appear the examination for high pressure welding certificate as per Indian Boiler Regulations, 1950 which is mandatory for any welding in boiler and related pipe lines.
5	Body/bodies which will award the qualification	State Labour Institute, W.B, P3, C I T Road, Scheme VII(M), Maniktala Main Road, Kankurgachi, Kolkata- 700054. West Bengal
6	Body which will accredit providers to offer courses leading to the qualification	State Labour Institute, W.B, P3, C I T Road, Scheme VII(M), Maniktala Main Road, Kankurgachi, Kolkata- 700054. West Bengal
7	Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)	N / A
8	Occupation(s) to which the qualification gives access	i) General and High Pressure Welder. ii) Welding Technician. iii) Welding Supervisor.
9	Job description of the occupation	Welding and supervision of welding of different types of materials from carbon steel to alloy steel in boiler and pressure vessel industries and general fabrication industries.
10	Licensing requirements	N/ A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	As per Regulation 608 of The Indian Boiler Regulations, 1950, the Qualification for appearing the certification of welder engaged in welding of Boiler and Steam pipes is ITI or one year welder related course form any institute recognised by a State Government or Central Government or one year regular apprenticeship from an industrial organisation each followed by at least one year regular on job experience as a welder in a workshop of industry.

		So, after completion of course the successful candidates with one year of practical experience will be eligible to appear the examination for high pressure welding certificate as per Indian Boiler Regulations, 1950 which is mandatory for any welding in boiler and related pipe lines.
12	Level of the qualification in the NSQF	4
13	Anticipated volume of training/learning required to complete the qualification	1840 hours
14	Indicative list of training tools required to deliver this qualification	1) Welding Machines with accessories for GTAW, SMAW, SAW and FCAW. 2) Safety Gadgets for Welding. 3) Cutting Machine. 4) Grinding Machine
15	Entry requirements and/or recommendations and minimum age	Minimum qualification : Class X passed or ITI passed or Boiler Quality High Pressure Welder passed. Minimum age : 18 years Duration of course : 1 year
16	Progression from the qualification (Please show Professional and academic progression)	After completion of course the successful candidates with one year of practical experience will be eligible to appear the examination for high pressure welding certificate as per Indian Boiler Regulations, 1950 which is mandatory for any welding in boiler and related pipe lines.
17	Arrangements for the Recognition of Prior learning (RPL)	If any candidate has got the skill in welding technology informally and satisfies the minimum eligibility criteria and appears in the assessment process and qualifies, then certificate will be awarded to the candidate who have not received any formal training.

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18	International comparability where known (search evidence to be provided)	N / A
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19	Date of planned review of the qualification	01.01.2022
20	Formal structure of the qualification	
	Mandatory components	
	Title of component and identification code/NOSs/outcomes	Estimated size (learning hours)
	Level	
(i)	Welding Technology (Theory)	880
		4
(ii)	Welding Technology (Practice)	880
		4
(iii)	Admission and Assessment	80
	Sub Total	1840
	Optional Component	
	Title of component and identification code/NOSs/outcomes	Estimated size (learning hours)
		Level
	Sub Total (B)	

Total (A+B)	1840	
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SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>State Labour Institute, W.B, P3, C I T Road, Scheme VII(M), Maniktala Main Road, Kankurgachi, Kolkata- 700054. West Bengal</p>
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>Candidates who have got the minimum eligibility criteria for admission to this course and have acquired sufficient theoretical and practical skill and knowledge informally in welding technology can apply for recognition for previous learning to the State Labour Institute, W.B,P3, C I T Road, Scheme VII(M),Maniktala Main Road, Kankurgachi, Kolkata- 700054. West Bengal</p> <p>The State Labour Institute will carry out assessment process for the candidates. If the candidates qualify in the assessment process, certificate will be awarded to the candidates.</p>

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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.

1. The Assessment for the qualification will be based on the basis of the outcomes.
2. The assessment will be done by the awarding body.
3. Assessment will be done on the following subjects:
 - i) Welding Technology (Theory)
 - ii) Welding Technology (Practice)
 - iii) Viva-voice
4. Question paper for theory examination will be set by the awarding body by taking question paper from experts in the field of welding technology.
5. Practical examination will be based on the jobs carried out in the workshop as well as job given for practical examination.
6. Viva-voice will be taken by external examiners having expertise in welding technology along with the faculties of the Training Centre.
- 7.

Sl. No	Subject	Total Marks	Pass Marks
1	Welding Technology (Theory)	100	40
2	Welding Technology (Practice)	100	40
3	Viva-voice	50	20

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

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

ASSESSMENT EVIDENCE

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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.

24. Assessment evidences

Title of Component:

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome								
Welding Technology (Theory)	Question paper for theory examination will be set by the awarding body by taking question paper from experts in the field of welding technology. Total marks: 100 Pass Marks: 40								
Welding Technology (Practice)	Practical examination will be based on the jobs carried out in the workshop as well as job given for practical examination. Total marks: 100 Pass marks: 40								
Viva-voice	Viva-voice will be taken by external examiners having expertise in welding technology along with the faculties of the Training Centre. Toal marks: 50 Pass marks: 20								
Means of assessment 1	<ol style="list-style-type: none"> 1. The Assessment for the qualification will be based on the basis of the outcomes. 2. The assessment will be done by the awarding body. 3. Assessment will be done on the following subjects: <ol style="list-style-type: none"> i) Welding Technology (Theory) ii) Welding Technology (Practice) iii) Viva-voice 								
Means of assessment 2 Add boxes as required.									
Pass/Fail									
	<table border="1"> <thead> <tr> <th>Sl. No</th> <th>Subject</th> <th>Total Marks</th> <th>Pass Marks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Welding Technology (Theory)</td> <td>100</td> <td>40</td> </tr> </tbody> </table>	Sl. No	Subject	Total Marks	Pass Marks	1	Welding Technology (Theory)	100	40
Sl. No	Subject	Total Marks	Pass Marks						
1	Welding Technology (Theory)	100	40						

2	Welding Technology (Practice)	100	40
3	Viva-voice	50	20

Estimated time allotment for training course of “**Advanced Boiler Quality High Pressure Welder**” :-

- (A) THEORETICAL:
- 1) Welding Process :- **(140 Hrs.)**
 - (a) Introduction to welding (30 Hrs.)
 - (b) Oxy acetylene Welding (14 Hrs.)
 - (c) Shielded Metal Arc Welding (SMAW) (14 Hrs.)
 - (d) Gas Tungsten Arc Welding (GTAW) (14 Hrs.)
 - (e) Gas Metal Arc Welding (GMAW) (14 Hrs.)
 - (f) Submerged Arc Welding (SAW) (14 hrs.)
 - (g) Flux Cored Arc Welding (FCAW) (10 Hrs.)
 - (h) Atomic Hydrogen Welding (10 Hrs.)
 - (i) Ultrasonic Welding (10 Hrs.)
 - (j) Laser Welding (10 Hrs.)
 - 2) Safety in Welding: **(35 Hrs.)**
 - 3) Weld Joint Design :- **(90 Hrs.)**
 - (a) General weld joints and weld grooves (45 Hrs.)
 - (b) Edge preparation as per IBR-1950 (45 Hrs.)
 - 4) Welding Symbols :- **(70 Hrs.)**
 - (a) Different welding symbols as per national

and international standards.

- 5) Position of Welding: :- **(90 Hrs.)**
- (a) Position of welding as per IBR-1950 (45 Hrs.)
 - (b) Position of welding as per ASME (45 Hrs.)
- 6) Electrode, Welding Rod and Flux :- **(100 Hrs.)**
- (a) Flux- Its requirement and composition. (20 Hrs.)
 - (b) Chemical Symbol of Elements (20 Hrs.)
 - (c) Electrode Classification Designator (20 Hrs.)
 - (d) Commonly used Electrode/Welding Rod as per AWS specification for GTAW & SMAW SAW & FCAW upto Grade-91 and SS material. (20 Hrs.)
 - (e) Electrode, Filler and Base Metal Combination upto Grade-91 & SS material. (20 Hrs.)
- 7) Preheating :- **(50 Hrs.)**
- (a) Preheating of different materials upto Grade-91 & SS materials
- 8) Interpass Temperature :- **(50 Hrs.)**
- (a) Interpass temperature of materials upto Grade-91 & SS materials.
- 9) Post Weld Heat Treatment :- **(70 Hrs.)**
- (a) Post weld heat treatment requirement upto Grade-91 & SS material. (25 Hrs.)
 - (b) Post weld heat treatment as per IBR-1950 and ASME. (25 Hrs.)

- (c) PWHT of two different materials (20 Hrs.)

- 10) Defects in Welding :- **(60 Hrs.)**
 - (a) Different types of Defects (30 Hrs.)
 - (b) Causes and Remedies (30 hrs.)

- 11) Non-destructive Testing & Destructive Testing :- **(75 Hrs)**
 - (a) Requirement of NDT as per IBR-1950 (20 Hrs)
 - (b) Different types of NDT & DT (20 Hrs)
 - (c) Inspection of welding (20 Hrs)
 - (d) Removal of defects (15 Hrs)

- 12) Welding Procedure Specification: **(25 Hrs.)**

- 13) Procedure Qualification Record: **(25 Hrs.)**

(B) PRACTICAL :- Time Alloted 880 Hrs.

- 1) Welding on Carbon Steel and Alloy Steel (upto Grade 91 & SS) material by SMAW process for pipes & tubes. (200 Hrs.)

- 2) Welding on Carbon Steel and Alloy Steel (upto Grade 91 & SS) material by GTAW process for tubes. (200 Hrs.)

- 3) Welding of pipes and tubes using combination of welding processes like GTAW+SMAW. (200 Hrs.)

- 4) Welding on plates by SMAW. (180 Hrs.)

- 5) Introduction to machine welding process viz SAW, FCAW, GMAW etc. (100 Hrs.)

(C) Admission and Assessment : **Time Alloted 80 Hrs.**

- 1) Admission. **(30 Hrs.)**
- 2) Assessment. **(50 Hrs.)**
 - a) Practical -- 20 Hrs.
 - b) Written Exam – 15 Hrs.
 - c) Viva vocie -- 15 Hrs.

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SECTION 2

25. EVIDENCE OF LEVEL

Option A			
Title / Name of qualification / component: <i>“Advanced Boiler Quality High Pressure Welder”</i> .			
Level: 4			
NSQF Domain	Outcomes of the Qualification / Component	How the outcomes relates to the NSQF level description	NSQF Level
Process	<ul style="list-style-type: none"> ➤ Selection of correct welding process ➤ Selection of welding machine ➤ Selection of correct welding electrode / filler. ➤ Selection of proper weld groove. ➤ Selection of proper welding parameters. 	The candidate will acquire well developed skill in welding of different types of materials from carbon steel to Grade 91 material and stainless steel. The candidate can select right welding process for the right material with the desired quality of the job provided.	4
Professional knowledge	<ul style="list-style-type: none"> ❖ Complete knowledge about the practical welding in field. ❖ Knowledge about different welding process, different welding materials, electrodes, welding 	<p>The candidate will acquire general concepts of welding in various welding process like, Gas welding, GTAW, GMAW, SMAW, SAW, FCAW and other modern welding process.</p> <p>The candidates will acquire special skill for different process</p>	4

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	<p>machines.</p> <ul style="list-style-type: none"> ❖ Knowledge about welding symbols, weld grooves. 	<p>of welding in the field of work.</p>	
<p>Professional skill</p>	<ul style="list-style-type: none"> • Desired knowledge and practical skill about the tasks. • Can select right process, Right material, right machine, right electrode, right WPs etc. for a particular job • Able to read and understand about Welding symbols and weld grooves. • Can read Welding Procedure Specification (WPS) • Understands Procedure Qualification Record (PQR). • Carry out Welding inspection. • Carry out Testing of Welding. 	<p>The candidates will get adequate practical exposure for performing the job as is required in the practical field of work.</p> <p>The candidates can select the proper welding procedure, WPS, proper welding machine, proper electrode/filler rod, proper current and voltage etc. to deliver the desired outcome for the particular job allotted to him.</p>	<p>4</p>

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<p>Core skill</p>	<ul style="list-style-type: none"> ▪ Basic mathematical skill ▪ Good communication skill ▪ Understanding of Welding Procedure Specification. ▪ Understanding of Procedure Qualification Record ▪ Understanding of Weld geometry as per the job. 	<p>The candidates will have desired basic mathematical skill as they are qualified with ITI or Class X standard.</p> <p>The candidates can communicate his skill and knowledge to others.</p> <p>The candidates can also share his knowledge and skill to his subordinates an supervisor.</p>	<p>4</p>
<p>Responsibility</p>	<ul style="list-style-type: none"> ○ Can take responsibility for his own job for selecting right welding process, right electrode/filler, right machine, proper current, proper voltage, follow proper Welding Procedure Specification. ○ Can maintain proper quality of job. ○ Can maintain Safety norms properly. ○ Can take some responsibility for others 	<p>The candidates can perform his job properly maintaining the desired quality.</p> <p>The candidate can perform the job maintaining the safety precautions for his own and for others.</p> <p>He candidates can also take the responsibility for others work as supervisor.</p>	<p>4</p>

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	as supervisor.		
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SECTION 3**EVIDENCE OF NEED**

26		In case of other Awarding Bodies (Institutes under Central Ministries and state departments)
	Need of the Qualification	<p>This course is highly specialized and is framed for the welder who will perform the welding job for the Pressure Vessels, Boilers and Steam and Feed Pipe lines.</p> <p>For doing welding in Boiler, Steam and Feed pipe lines a certificate is needed from the competent authority as prescribed in the Indian Boilers Regulations, 1950</p> <p>This qualification with one year of practical experience will satisfy the minimum eligibility criteria for appearing the examination for certification as per the Indian Boiler Regulations, 1950.</p> <p>These welders can also perform welding jobs in the general fabrication industries where welding job is there.</p> <p>There is a huge demand of welders in the boiler and pressure vessel industries and general fabrication industries in India.</p>
	Industry Relevance	<p><i>List of Industry Participation:</i></p> <ol style="list-style-type: none"> 1. Power & Projects, Rajarampur, Sutahati, Haldia-721635 2. Bostin Engineers Pvt.Ltd. DAW BUILDING (2nd floor), 184, Lenin Sarani, Kolkata – 700 013 3. Multitech Boilers Pvt.Ltd. 12A, Kalibari Lane, Jadavpur, Kolkata – 700 032. 4. Encon Enterprises Pvt.Ltd. 24, Surya Sen Street, Kolkata – 700 009, W.B. 5. NMD Engineering Works, Basudevpur, Durgachawk, Haldia-721602
	Usage of the qualification	<p style="text-align: center;"><u>Welders' Training Centre:</u></p> <p><i>The Welders' Training Centre under the Directorate is imparting training to welders for high pressure welding since 1986. At present we have two nos of training centres situated at Taratala and Asansol.</i></p> <p>Address of Wlders' Training Centre:</p> <p>1) Welders' Training Centre, Taratala <i>Testing Laboratory, P-31, Taratala Road, Kolkata-700088. Phone No: 033 2401 4546</i></p>

2) Welders' Training Centre, Asansol

Kanyapur, Asansol,
Burdwan.

Phone No: 0341 251 0517

Welders' Training Centre, Taratala was inaugurated on 8th February, 2014 in a new form with two nos of new training courses on welding.

Welders' Training Centre, Asansol was inaugurated on 31st August, 2015 with two nos of training courses on welding.

The courses are:

Advanced Boiler Quality High Pressure Welder-

Minimum qualification : Class X passed or ITI Passed or
**Boiler Quality High Pressure Welder
Passed**

Minimum age : 18 years

Course fee : Rs.9000.

Duration of course : 1 year

No of seats : 50 for Taratala

: 30 for Asansol

Theoretical as well as practical training in different processes both on welding of carbon steel and alloy steel materials are being provided to the trainees of this Welders' Training Centre.

Syllabus for the trained and proposed qualification of "Advanced Boiler Quality High Pressure Welder" :-

- (A) **THEORETICAL:1)** **Welding Process:**
- (a) Intorduction to welding
 - (b) Oxy acetylene Welding
 - (c) Shilded Metal Arc Welding
(SMAW)
 - (d) Gas Tungsten Arc Welding

		<p>(GTAW)</p> <p>(e) Gas Metal Arc Welding (GMAW)</p> <p>(f) Submerged Arc Welding (SAW)</p> <p>(g) Flux Cored Arc Welding (FCAW)</p> <p>(h) Atomic Hydrogen Welding</p> <p>(i) Ultrasonic Welding</p> <p>(j) Laser Welding</p> <p>2) Safety in Welding:</p> <p>3) Weld Joint Design:</p> <p>(a) General weld joints and weld grooves</p> <p>(b) Edge preparation as per IBR-1950</p> <p>4) Welding Symbols:</p> <p>(a) Different welding symbols as per national and international standards.</p> <p>5) Position of Welding:</p> <p>(a) Position of welding as per IBR-1950</p> <p>(b) Position of welding as per ASME</p> <p>6) Electrode, Welding Rod and Flux:</p> <p>(a) Flux- Its requirement and composition.</p> <p>(b) Chemical Symbol of Elements</p> <p>(c) Electrode Classification</p> <p>(d) Commonly used Designator</p> <p>Electrode/Welding Rod</p> <p>as per AWS specification for GTAW & SMAW</p>
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		<p>and SS</p> <p>Combination</p> <p>upto</p> <p>materials upto</p> <p>requirement upto</p> <p>IBR-1950</p> <p>Testing:</p> <p>1950</p>	<p>SAW & FCAW upto Grade-91 material.</p> <p>(e) Electrode, Filler and Base Metal upto Grade-91 & SS material.</p> <p>7) Preheating: (a) Preheating of different materials Grade-91 & SS materials</p> <p>8) Interpass Temperature: (a) Interpass temperature of Grade-91 & SS materials.</p> <p>9) Post Weld Heat Treatment: (a) Post weld heat treatment Grade-91 & SS material. (b) Post weld heat treatment as per and ASME. (c) PWHT of two different materials</p> <p>10) Defects in Welding: (a) Different types of Defects (b) Causes and Removal</p> <p>11) Non-destructive Testing & Destructive (a) Requirement of NDT as per IBR-1950 (b) Different types of NDT & DT</p>
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		<p>(c) <i>Inspection of welding</i> (d) <i>Removal of defects.</i></p> <p>12) <i>Welding Procedure Specification:</i></p> <p>13) <i>Procedure Qualification Record:</i></p> <p>(B) PRACTICAL: 1) <i>Welding on Carbon Steel and Alloy Steel (upto Grade 91 & SS) material by SMAW process for pipes & tubes.</i></p> <p>(upto Grade 2) <i>Welding on Carbon Steel and Alloy Steel (upto Grade 91 & SS) material by GTAW process for tubes.</i></p> <p>3) <i>Welding of pipes and tubes using combination of welding processes like GTAW+SMAW.</i></p> <p>4) <i>Welding on plates by SMAW.</i></p> <p>5) <i>Introduction to machine welding process viz SAW, FCAW, GMAW etc.</i></p>
	<p>Estimated Uptake</p>	<p>This is a specialized course intended for boiler quality high pressure welding. There is a huge demand for this type of specialized welder in the boiler and pressure vessel industry as well as in the fabrication and automotive industries. "Welders' Training Centre" under the Directorate of Boilers, West Bengal, is conducting this type of training course since 1986. Students passing out from this institute are getting jobs in different industries.</p>
<p>27</p>	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences:</p>	

	This course is approved by the Labour Department, Government of West Bengal vide No: (i) 863-LW/3C-04/06 (Pt.-1) dated. 18.12.2013 and (ii) Labr./54/Dte. (Boil) /G/1"O"/07 (Pt.III) dt.18.08.2016.
28	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification:</p> <p>This is a specialized course for training for welders originally designed by the Directorate of Boilers, W.B and approved by the Labour Department, Government of West Bengal. By searching it is found that this type of course is not available in the NQR or in the Sector Skill Council. This is a unique type of course and there is no question of duplicate qualification.</p>
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here:</p> <p>The curriculum will be reviewed periodically by a committee by taking experts from the Directorate of Boilers and industries concerned with the welding activities.</p> <p>Data will be collected from the industries, experts in welding, welders, trainers and Directorate of Boilers for the revision of the qualification periodically.</p>

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

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

SECTION 4

EVIDENCE OF PROGRESSION

30	<p>What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector? Show the career map here to reflect the clear progression:</p> <p>After completion of course the successful candidates with one year of practical experience will be eligible to appear examination for high pressure welding certificate as per Indian Boiler Regulations, 1950 which is mandatory for any welding in boiler and related pipe lines.</p>
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Please attach most relevant and recent documents giving further information about any of the topics above.

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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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