

NSQF QUALIFICATION FILE

Approved in 17th NSQC Meeting-NCVET-Dated 31st March, 2022

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Capital Goods Skill Council
L-29, 1st Floor, C/o AWFIS,
Outer Circle, Connaught Place
New Delhi 110001

NCVET Code

2022/CCM/CGSC/05571

Name and contact details of individual dealing with the submission

Name: Ms. Shalini Singh

Position in the organisation: COO & Acting CEO

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Tel number(s): Board No: +91- 7838293838

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List of documents submitted in support of the Qualifications File

1. Qualification Pack
2. Model Curriculum
3. Industry Validations

NSQF QUALIFICATION FILEApproved in 17th NSQC Meeting-NCVET-Dated 31st March, 2022**SUMMARY**

1	Qualification Title	Draughtsman - Piping
2	Qualification Code	CSC/Q0403
3	NCO code and occupation	NCO-2015/NIL, Design
4	Nature and purpose of the qualification	<p>This is a Qualification Pack (QP) containing National Occupational Standards for the job role – Draughtsman - Piping</p> <p>The main purpose of the qualification is to get unemployed people into work and to upgrade the skills of people already in work. The qualification will help them gain the appropriate process and technical knowledge, critical thinking and decision-making skills related to a Draughtsman-Piping</p>
5	Body/bodies which will award the qualification	Capital Goods Skill Council (CGSC)
6	Body which will accredit providers to offer courses leading to the qualification	Capital Goods Skill Council (CGSC)
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes
8	Occupation(s) to which the qualification gives access	Design
9	Job description of the occupation	A Draughtsman – Piping is responsible for selecting the appropriate equipment and drawing software to create and edit isometric and spool drawings, along with drawings for process flows, and Piping and Instrumentation (P&ID) diagrams. It also includes orthogonal single- and double-line arrangement drawings of pipe installation systems and piping layouts.
10	Licensing requirements	N/A
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NA
12	Level of the qualification in the NSQF	4

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13	Anticipated volume of training/learning required to complete the qualification	420 hours (Theory: 120, Practical: 300)
14	Indicative list of training tools required to deliver this qualification	<p>Some of the training tools that can be used for the curriculum include:</p> <ul style="list-style-type: none"> • Computer Of Latest Configuration with All Peripheral Devices (Light Pen, Digitizer/Tablet, Scanner, Printer, Plotter), Pipe Fittings and Components, Various Types of Pipes, Commonly Used Pipe Fittings and Flanges, Latest Version of CAD Template • Personal Protective Equipment, such as Overalls, Safety Glasses, Safety Shoes, Mask, etc. Cleaning Equipment and Materials like, Sanitizer, Soap, etc.
15	Entry requirements and/or recommendations	<p>8th Class Pass + ITI - Fitter (2years) with 2 years of experience in the relevant field OR 10th Class Pass with 2 years of experience in the relevant field OR 10th Class Pass + ITI (1 year) with 1 year of experience in the relevant field OR 10th Class Pass + ITI (2 years) OR 12th Class Pass with 6 months of experience in the relevant field OR Certified in NSQF-L3 Operator - CAM Operator with 2 years of experience in the relevant field</p>
16	Progression from the qualification	<p>This entry should refer to one or more of the following: Professional progression: Access to related qualification(s) at the next NSQF level – CNC Programmer (L5)</p>
17	Planned arrangements for the Recognition of Prior Learning (RPL)	<ul style="list-style-type: none"> - Response to market forces for RPL. - RPL assessments will be the same as our normal assessments.
18	International comparability was known	Not Yet Established

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19	Date of the planned review of the qualification 31/03/2025				
20	Formal structure of the qualification				
	Title of component and identification code.	Mandatory/ Optional	Estimated size (learning hours)		Level
			Theory	Practical	
i)	Introductory/ Bridge modules	Mandatory	4	-	-
ii)	CSC/N1335: Follow the health and safety practices at work	Mandatory	20	60	3
iii)	CSC/N1336: Coordinate with co-workers to achieve work efficiency	Mandatory	20	60	3
iv)	CSC/N0403: Create and edit 2D piping drawings using the CAD	Mandatory	76	180	4
	Total		120	300	

Please attach any document giving further detail about the structure of the qualification – e.g., 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.

1. Qualifications Pack- Draughtsman - Piping

SECTION 1

ASSESSMENT

<p>21</p>	<p>Body/Bodies which will carry out the assessment:</p> <ul style="list-style-type: none"> • <i>Manipal City & Guilds</i> • <i>Multi Skills Assessors Guild.</i> <p>More Assessment Agencies are being empanelled to cover a wider geographical area</p>
<p>22</p>	<p>How will the RPL assessment be managed and who will carry it out?</p> <p><i>RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack and will be carried out as per the normal CGSC assessment process. The Training Partner or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps and advertisements. The mobilized candidates can be counselled, oriented about the standardized NSQF framework, and based on their existing competency, will be mapped against the suitable level of the concerned Job role for assessments. The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by the Sector Skill Council (SSC). The candidate will need to pass the minimum assessment criteria of a particular QP decided by the SSC. Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for QP-NOS based Certification.</i></p>
<p>23</p>	<p>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.</p> <p><i>The emphasis is on 'learning-by-doing and practical demonstration of skills and knowledge based on the performance criteria. The assessment papers are developed by Subject Matter Experts (SME) available with the Assessment Agency as per the performance and assessment criteria mentioned in the Qualification Pack. The assessment papers are also checked for the various outcome-based parameters such as quality, time taken, precision, tools & equipment requirement etc. The assessment sets are then reviewed by CGSC officials for consistency. The assessments are designed to assess maximum parts during the practical hands-on work. The technical limitations at the training centres are taken care of in theory and viva. Criteria such as the use of a lift to pick heavy objects or selection of fire extinguishers during a fire are also assessed under theory/viva.</i></p>

The assessment agencies are instructed to hire assessors with integrity, reliability and fairness. Each assessor shall sign a document with their 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 the impartiality of the assessments. The assessment agencies are instructed to ideally have assessors with a minimum of 15 years of industry experience as an ITI graduate/ minimum of 10 years of industry experience as a diploma engineer and a minimum of 5 years of industry experience as a graduate engineer.

The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to CGSC Assessment Framework, competency-based assessments, assessors guide etc.

The assessors are provided with an assessor's guide developed by the Subject Matter Expert of the assessment agency as per the assessment framework. The assessment guides are developed to ensure the maximum possible consistency in the assessment by different assessors and elaborate on the following

- 1. Qualification Pack Structure*
- 2. Guidance for the assessor to conduct theory, practical and viva assessments*
- 3. Guidance for trainees to be given by the assessor before the start of the assessments.*
- 4. Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet*
- 5. Viva guidance for uniformity and consistency across the batch.*
- 6. Guidance on assessment evidence collection*

A sample format of the Assessment Guide for Draughtsman - Piping are attached. Similar Assessor Guides are developed and shared with the assessors before the start of the assessments as standard practices for all assessments by CGSC. The Sample of Assessor Guide is attached as Annexure 4

The assessment results are backed by the evidence collected by assessors.

- 1. The assessor needs to collect a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In-charge/ Head of the Training Centre.*
- 2. The assessor needs to verify the authenticity of the candidate by*

	<p><i>checking their photo ID card issued by the institute as well as any 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 the trainee's credentials in the enrolment form.</i></p> <ol style="list-style-type: none"><i>3. The assessor needs to punch the trainee's roll number on all the test pieces. Different sections can have alpha numbering. For example, if a student's roll number is 123 then the three pieces can be numbered and punched as 123a, 123b and 123c.</i><i>4. The assessor 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.</i><i>5. The assessor needs to carry a camera to click photographs of the trainees working on the job and give the theory exam, as evidence.</i><i>6. The assessor also needs to carry a photo ID card.</i><i>7. The assessor also needs to take the photographs as evidence from appropriate angles/sides of the final workpiece/ job submitted by the trainee. This evidence is signed by the trainee at the time of submission of the job piece.</i><i>8. The assessor needs to measure the dimensions and finish of the submitted workpiece as per the tolerance or standards mentioned in the assessment guide.</i> <p><i>The details on the assessment framework are elaborated in CGSC Protocol for Accreditation of Assessment Agencies and Assessment Framework.</i></p>
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Please attach any documents giving further information about the 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 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:

Job Role Draughtsman - Piping
Qualification Pack CSC/Q0403, v2.0
Sector Skill Council Capital Goods

Guidelines for Assessment:

1. Criteria for assessment for each Qualification Pack (QP) will be created by the Sector Skill Council (SSC). Each performance criteria (PC) will be assigned Theory and Skill/Practical marks proportional to its importance in NOS.
2. The assessment will be conducted online through assessment providers authorised by SSC.
3. Format of questions will include a variety of styles suitable to the PC being tested such as multiple-choice questions, fill in the blanks, situational judgment test, simulation and programming test.
4. To pass a QP, a trainee should pass each individual NOS. Standard passing criteria for each NOS is 70%.

Title of NOS/Unit/Component:

Assessable Outcomes	Assessment Criteria for the Outcomes	Total Mark	Out of	Theory	Practical
1. CSC/N1335: Follow the health and safety practices at work	Maintain personal health and safety	100	19	7	12
	PC1.follow the recommended practices to ensure protection from infections and transmission to others, such as the use of hand sanitiser and face mask		5	2	3
	PC2.check the work conditions, assess the potential health and safety risks, and take appropriate measures to mitigate them		3	1	2
	PC3.select and use the appropriate Personal Protective Equipment (PPE) relevant to the task and work conditions		3	1	2

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PC4.follow the recommended techniques while lifting and moving heavy objects to avoid injury	4	1	3
PC5.follow the manufacturer's instructions and workplace safety guidelines while working on heavy machinery, tools and equipment	4	2	2
Assist in hazard management	14	4	10
PC6.identify existing and potential hazards at work	2	1	1
PC7.assess the potential risks and injuries associated with the identified hazards	4	1	3
PC8.coordinate with the supervisor or other relevant personnel to prevent or minimise the identified hazards	4	1	3
PC9.handle hazardous materials safely and store them in the designated storage	4	1	3
Check the first aid box, firefighting and safety equipment	10	3	7
PC10.check the first aid box to ensure it is updated with the relevant first aid supplies	3	1	2
PC11.check and test the firefighting and various safety equipment to ensure they are in usable condition	4	1	3
PC12.coordinate with the supervisor for the repair and replacement of firefighting and safety equipment	3	1	2
Assist in waste management	11	3	8
PC13.segregate waste into appropriate categories	4	1	3
PC14.recycle the recyclable waste appropriately	4	1	3

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PC15.dispose of the non-recyclable waste in an environment-friendly manner, complying with the applicable regulations	3	1	2
<i>Follow the fire safety guidelines</i>	15	3	12
PC16.use the appropriate type of fire extinguisher to extinguish different types of fires safely	5	1	4
PC17.follow the recommended practices for a safe rescue during a fire emergency	5	1	4
PC18.coordinate with the fire department to request assistance to extinguish a serious fire	5	1	4
<i>Follow the emergency and first-aid procedures</i>	19	7	12
PC19.follow the organisational health and safety guidelines during workplace emergencies to ensure own and co-workers' safety	3	1	2
PC20.follow the recommended practices to minimise loss to organisational property during an emergency	4	1	3
PC21.follow the recommended procedure to free a person from electrocution	3	1	2
PC22.administer appropriate first aid to the injured personnel	3	1	2
PC23.perform Cardiopulmonary Resuscitation (CPR) on a potential victim of cardiac arrest	3	1	2
PC24.coordinate with the emergency services to request medical assistance for seriously injured/ ill personnel	3	2	1

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	requiring professional medical attention or hospitalization				
	Carry out relevant documentation and review		12	3	9
	PC25.carry out appropriate documentation following a health and safety incident at work, including all the required information		4	1	3
	PC26.coordinate with the relevant personnel to review health and safety conditions at work regularly or following an incident		4	1	3
	PC27.assist in implementing appropriate changes to improve the health and safety conditions at work		4	1	3
	Total	100	100	30	70
2. CSC/N1336: Coordinate with co-workers to achieve work efficiency	Work efficiently with co-workers	100	63	20	44
	PC1.plan daily tasks at work to ensure their timely completion and efficient use of time		6	2	4
	PC2.carry out work responsibilities adhering to the limits of authority		6	2	4
	PC3.follow the supervisor's instructions to ensure adherence to the applicable quality standards and timescales		6	2	4
	PC4.coordinate with the co-workers to achieve the work objectives efficiently		6	2	4
	PC5.prepare the relevant documents and reports as per the supervisor's instructions, providing appropriate information clearly and systematically		6	2	4

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PC6.coordinate with the supervisor or relevant personnel to deal with out of authority tasks and concerns	6	2	4
PC7.mentor and assist subordinates in the execution of their work responsibilities	6	2	4
PC8.identify possible disruptions to work through coordination with the relevant stakeholders and take appropriate preventive measures	6	2	4
PC9.use various resources efficiently to ensure maximum utilisation and minimum wastage	6	2	4
PC10.follow the recommended practices to avoid and resolve conflicts at work	6	1	4
PC11.follow the relevant organisational policies to ensure disciplined behaviour with maximum productivity at work	3	1	3
Communicate effectively with co-workers	21	6	15
PC12. follow the organisational policy for the efficient and timely dissemination of information to the authorised personnel	7	2	5
PC13.communicate clearly and politely to ensure effective communication with co-workers	7	2	5
PC14.follow the appropriate techniques for active listening during interactions	7	2	5
Practice inclusion at work	16	4	12
PC15.empathise with Persons with Disabilities (PwD)	8	2	6
PC16.adopt gender-neutral behaviour at work	8	2	6

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		Total	100	30	70
3. CSC/N0403: Create and edit 2D piping drawings using the CADs	<i>Determine the work requirements</i>	100	18	5	13
	PC1. determine the work requirements and technical specifications by referring to the relevant documents such as the drawing brief, sketches, design brief, etc.		4	1	3
	PC2. check the available technical information to ensure it is correct and complete		3	1	2
	PC3. coordinate with the relevant personnel for the rectification of any incorrect and inconsistent information in the job specification documents		4	1	3
	PC4. analyse the piping and instrumentation diagrams and specifications		4	1	3
	PC5. determine the drawing requirements from the data and information received		3	1	2
	<i>Prepare for creating and editing 2D piping drawings</i>		19	6	13
	PC6. select the appropriate drawing method		3	1	2
	PC7. set up the computer, its peripherals and other relevant equipment for use, such as light pen, digitizer, scanner, printer, plotter, etc.		4	1	3
	PC8. select the relevant 2D drawing software and drafting equipment appropriate to the selected drawing method		3	1	2
	PC9. set the drawing datum at an appropriate point in the software as per the user manual		3	1	2
	PC10. set the appropriate drawing parameters, such as layers, lines, colour, text style,		3	1	2

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	according to the drawing requirements			
	PC11. set the vertical and horizontal offsets and hand wheel orientation appropriately	3	1	2
	Create and edit 2D piping drawings	57	17	40
	PC12. customise system variables, menus and drawing defaults to produce the drawing to the appropriate scale	4	1	3
	PC13. develop macros following the approved procedures	3	1	2
	PC14. follow the appropriate drafting principles to create drawings consistent with the applicable standards	3	1	2
	PC15. create drawings using first angle orthographic projections, isometric/oblique projections, third angle orthographic projections, sectional elevations, etc.	4	1	3
	PC16. incorporate the specifications of piping systems and equipment in the drawing	3	1	2
	PC17. design pipes, valves and auxiliary equipment, applying the relevant operating principles	3	1	2
	PC18. ensure the applicable health, safety and environmental factors are considered and incorporated in the drawing	3	1	2
	PC19. ensure the drawing/model accurately reflects specifications, and contains all the relevant information	3	1	2

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PC20. create a drawing template following the applicable process, including all the necessary details, such as title, scale, material, date, etc.	6	2	4
PC21. use the appropriate techniques, terminologies, and codes while creating drawings in the required formats, ensuring the drawing is detailed with the necessary information	3	1	2
PC22. use various commands and menus available in the CAD system, as required	3	1	2
PC23. create process flows, piping and instrumentation (P&ID) diagrams, and isometric and spool drawings	4	1	3
PC24. create orthogonal single and double line arrangement drawings of pipe installation systems, according to the engineer sketches	4	1	3
PC25. draw piping layouts and dimensions, and label the drawing as per the approved procedures	3	1	2
PC26. coordinate with the relevant personnel to get the drawings checked and approved, or resolve any issues encountered during the designing process	4	1	3
PC27. follow the organisational procedure for saving the approved drawings to an appropriate storage medium and taking prints to be shared with the stakeholders, ensuring the drawings are correctly titled and referenced	4	1	3
<i>Use resources optimally</i>	6	2	4

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	PC28. optimise the usage of electricity and other resources in various tasks and processes		3	1	2
	PC29. connect the electrical tools and equipment safely, and turn them off when not in use		3	1	2
		Total	100	30	70

Means of assessment 1

Proctored online assessments (LAN and Web-based), carried out using a variety of question formats applicable for linear/ adaptive methodologies; performance criteria being assessed via situation judgement tests, simulations, code writing, psychometrics and multiple-choice questions, etc.

Means of assessment 2

Presently not considered.

Pass/Fail

To pass a QP, a trainee should pass each NOS. The standard passing criteria for each NOS is 70%

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SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of qualification/component: Draughtsman - Piping		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Process	<p>Wide-ranging specialized theoretical learning requirements</p> <ul style="list-style-type: none"> • Process of determining the work requirements • Process of preparing for creating and editing 2D piping drawings. • Process of creating and editing 2D piping drawings. • Process of setting up the computer, its peripherals and other relevant equipment for use. • Process of creating drawings using first angle orthographic projections, isometric/oblique projections, third angle orthographic projections, sectional elevations, etc. 	<p>The job involves a range of theoretical understanding and practical skills as can be seen from the job requirements given in the adjacent cell.</p> <p>The skills include creating and editing 2D detailed and isometric drawings for piping and piping systems used in mechanical engineering systems, using the Computer-Aided Design (CAD) system.</p>	4
Professional knowledge	<ul style="list-style-type: none"> • Knowledge of applicable documentation requirements in the job role. • Understand the need and process of developing macros, customising menus and system defaults. • Know the benefit of including auxiliary views 	<p>As indicated by the knowledge and understanding requirements mentioned in the adjacent cell, the job holder needs to have a wide range of information for creating and editing 2D piping drawings using CAD.</p>	4

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Title/Name of qualification/component: Draughtsman - Piping		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
	<p>in drawings</p> <ul style="list-style-type: none"> • Know the basic principles of engineering manufacturing operations. • Understand the importance of selecting the appropriate materials for piping. • Knowledge of maintaining the appropriate operating environment, quality, aesthetics, interfaces, physical space, ergonomics, tolerances, etc 		
Professional skill	<ul style="list-style-type: none"> • Setting up the computer, its peripherals and other relevant equipment for use, such as light pen, digitizer, scanner, printer, plotter, etc. • Set the appropriate drawing parameters, such as layers, lines, colour, text style, according to the drawing requirements. • incorporate the specifications of piping systems and equipment in the drawing. • design pipes, valves and auxiliary equipment, applying the relevant operating principles. • create process flows, piping and instrumentation (P&ID) diagrams, and isometric and spool drawings. 	As indicated by the performance criteria in the adjacent cell, the job holder needs to have wide-ranging practical skills for creating and editing 2D piping drawings using CAD.	4

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Title/Name of qualification/component: Draughtsman - Piping		Level: 4	
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF Level
Core skill	<p>Logical and mathematical skills</p> <ul style="list-style-type: none"> Follow the technical specification and appropriate procedures. Perform work-related calculations <p>Collecting and organising information</p> <ul style="list-style-type: none"> Use the standard templates and tools for documenting work Collect the relevant information concerning the 2D piping drawing and carry out the appropriate documentation 	<p>The job holder requires logical and relevant mathematical skills for creating 2D Piping drawings.</p> <p>As indicated by the performance criteria in the adjacent cell, the job involves collecting the relevant information and preparation of appropriate documents, as required in the job role.</p>	4
Responsibility	<ul style="list-style-type: none"> Responsible for determining the work requirements Responsible for preparing for creating and editing 2D piping drawings Responsible for creating and editing 2D piping drawings. Responsible for coordinating with the relevant personnel for the rectification of any incorrect and inconsistent information. Responsible to select the appropriate drawing method 	<p>A Draughtsman – Piping is responsible for selecting the appropriate equipment and drawing software to create and edit isometric and spool drawings, along with drawings for process flows, and Piping and Instrumentation (P&ID) diagrams. It also includes orthogonal single- and double-line arrangement drawings of pipe installation systems and piping layouts.</p>	4

SECTION 3

EVIDENCE OF NEED

26	<p>What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?</p> <p>While collecting data from the relevant companies for the occupational map, we also took feedback from the industry concerning the qualification packs being revised.</p> <p>This was largely based on the volume of people required, a quantitative and qualitative shortfall that the industry feels they face. The governing council of CGSC gave final approval and endorsement for the same.</p> <p>The improvement in the industrial policies and better ranking in the World Bank Doing Business indicator has been the key factors behind the improving FDI scenario in India. As per the Global Investment Trade Monitor 2019 report by UNCTAD, India remained among the top 20 recipients of FDI investment globally in 2019. The report further stated India as the major driver of the FDI growth in the South Asian economy which recorded a 10 per cent increase in FDI reaching up to \$60 billion. India's FDI inflow grew by almost 16 per cent in 2019 bringing it up to \$49 billion. Turnover of the capital goods industry is estimated to have reached US\$ 70.00 billion by 2017 and is estimated to grow to US\$ 115.17 billion by 2025. The industry grew 21.1 per cent year-on-year between Apr-Sep 2020.</p> <p>The capital goods sector is the base of many industries, thus an essential component of manufacturing. With a total market size of US\$ 92 billion and production valued at US\$ 32 billion, the Capital Goods sector today contributes to 12% of India's manufacturing output and 1.8% to GDP. The capital goods industry is estimated to have employed 2.8 million people in 2017, which is set to see further growth. Although there is a potential of propelling the sector to approximately INR 7 lakh crore over the next 4- 5 years, the sector is currently facing insufficient off-take due to a lack of domestic and global demand. CII has a National Committee on Capital Goods and Engineering having representation of over 35 leading companies and 6 sub-sector associations</p> <p>An industry-determined specification of performance sets out the skills, knowledge and attitudes required to work effectively in employment.</p> <p>For employers, the Draughtsman - Piping Qualification standards offer:</p> <ul style="list-style-type: none">▪ a means of assessing occupational competence objectively, including knowledge and understanding of the subject▪ a guide for job descriptions and recruitment requirements▪ a basis for staff appraisals▪ a systematic approach to analysing training needs
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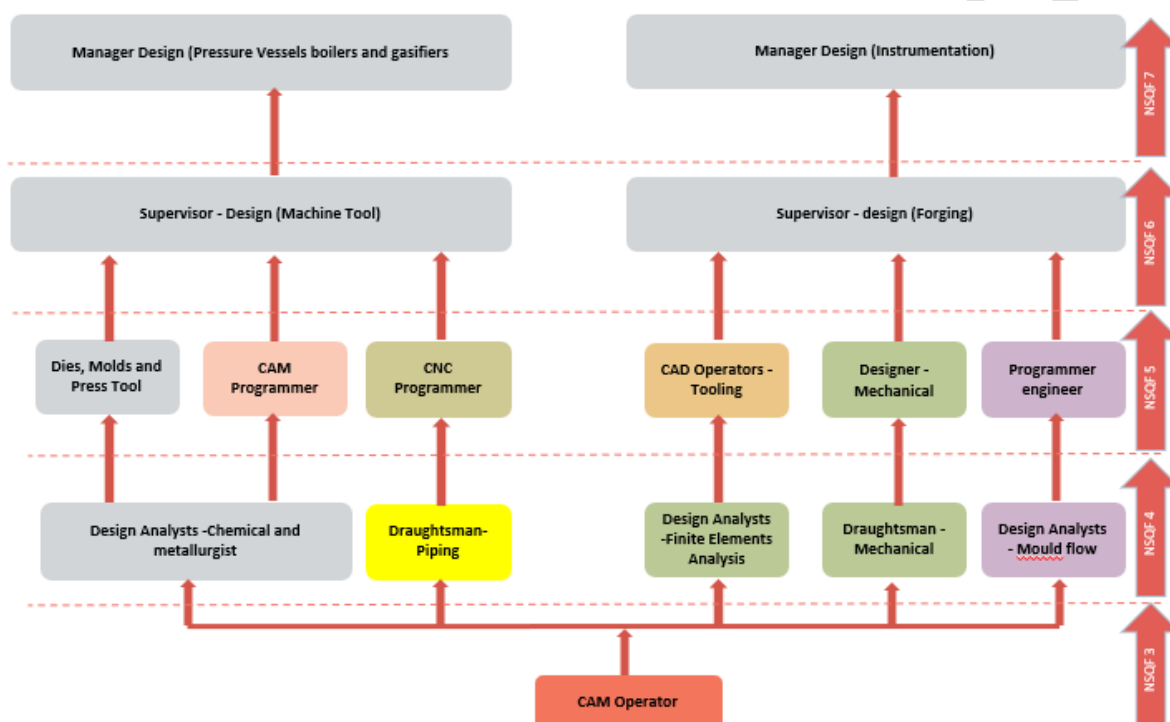
	<ul style="list-style-type: none"> ▪ an opportunity to improve overall company performance by developing a better-trained, better-equipped and more effective workforce. <p>To employees and freelancers, the Draughtsman - Piping Qualification standards provide:</p> <ul style="list-style-type: none"> ▪ a means for recognizing the ability ▪ a means for determining gaps in knowledge, experience and skills ▪ an objective process for identifying training needs ▪ performance indicators and a guide to effectiveness and efficiency. <p>One of the most valuable uses of the occupational standards is in the assessment of a person's performance within a particular job. Because the standards are based on the industry's requirements for ability, skills and knowledge, they provide an objective and directly relevant measure for employers and employees alike.</p> <p>The Qualification Pack shall also help conduct Recognition of Prior Learning of the Draughtsman - Piping</p>
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>In place.</p>
28	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF?</p> <p><i>This is the revised version of the already NSQC approved QP. The revision has been undertaken as the QP is going to expire soon.</i></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?</p> <ul style="list-style-type: none"> • <i>Agencies have been appointed by the SSC to interact with training providers to gather feedback in implementation.</i> • <i>Monitoring of results of assessments</i> • <i>Employer feedback will be sought post-placement</i> • <i>A formal review is scheduled in a two-year time</i> <p><i>The above data is used to update the Qualification and this revision is published annually. Nonetheless, if major feedback is received prior to the planned review period, the change is considered in consultation with the industry council.</i></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?

Career path in the capital goods sector is generally in terms of activities done & ownership of responsibility because they are primarily salaried employee/ entrepreneurship roles.

Annexure 1: Career Map of Draughtsman - Piping



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.