



QUALIFICATION FILE

Product Verifier and Analyst

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

☒ Upskilling ☐ Dual/Flexi Qualification ☐ For ToT ☐ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 5

Submitted By:

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Section 1: Basic Details

1.	Qualification Name	Product Verifier and Analyst	
2.	Sector/s	IT-ITeS	
3.	Type of Qualification: ☐ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> 2022/ITES/KSDC/05920	Qualification Name of existing/previous version: Product Verifier and Analyst- Generic V1
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Product Verifier and Analyst	
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-05-IT-05920-2025-V2-KSDC	6. NCrf/NSQF Level: 5
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>)	Certificate	
8.	Brief Description of the Qualification	This course aims at acquiring adequate knowledge and skills relevant to product verification / validation process. This course helps students to understand various steps involved in product verification / validation using software. This course also provides hands on experience to students in creation and modification of CAD models, exporting of geometry, cleaning of geometry, simplification of model, mid surface extraction, meshing of components by considering mesh quality criteria, assigning boundary condition, applying leads and support required for preparation of post process and preparing report. This course provides career opportunities for students to work in automobile, aerospace, locomotive, consumer goods, etc.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: Graduation in the relevant field OR 3-year Diploma (after 12th Class) OR 2-year Diploma (after 12th Class) with 2 years' experience in relevant field OR ITI (after 10th Class) with 2 years' experience in relevant field OR 1 year Diploma (after 12th Class) with 2 years' experience in relevant field OR 12th Class Pass with 6 years' experience in relevant field	

		OR Previous relevant Qualification of NSQF Level 4 with 2 years' experience in relevant field b. Age: Minimum Age: 18 Years																						
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	16	11. Common Cost Norm Category (I/II/III) (wherever applicable):																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☐ Offline ☐ Online ☐ Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>90</td><td>240</td><td>150</td><td></td><td>480</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for details)					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	90	240	150		480	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	90	240	150		480																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	2523.0401 - Design Engineer																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Product Verifier and Analyst→ Sr. Product Verifier and Analyst→ Lead Product Verifier and Analyst																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	No																						
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																						
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:																						
19.	How Participation of Women will be Encouraged																							
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☐ Yes ☒ No																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ No																						
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Nagaraja NM, IAS Managing Director, Karnataka Skill Development Corporation Email: md.ksdc@karnataka.gov.in Website: https://kaushalkar.karnataka.gov.in/en Contact No.: 080 2952 2222																						
23.	Final Approval Date by NSQC:	24. Validity Duration: 3 years		25. Next Review Date																				

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/non-core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Understanding the product, its design phases and development, engineering concepts for the development of product.		Core	5	1	10	20			30	2	4		6	12	12
2.	Comply with the finite element analysis and its processes and procedures to build the Finite Element models.		Core	5	1	10	20			30	2	4		6	12	12
3	Selection of material, loads & boundary and criteria for analysis of product.		Core	5	1	10	20			30	2	4		6	12	12
4.	Analysing the product for required design criteria and enhancing the design by different methods. Provide design updates		Core	5	2	20	40			60	4	8		6	18	18
5.	Assignments (Based on case studies and Industrial application)		Core	5	4	20	100			120	3	7		6	16	16
6.	Mini Project (Based on Industrial application)		Core	5	5			150		150	4	8		6	18	18

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/non-core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
7.	Employability Skills		Non-Core	5	2	20	40			60	3	5		4	12	12
Duration (in Hours) / Total Marks					16	90	240	150	0	480	20	40	0	40	100	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: ____% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field and domain certification.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field and domain certification.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 6-year experience in industry or training experience.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided:
5.	Estimated nos. of persons to be trained and employed:
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: NA If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors <i>(Mandatory)</i>	<i>Annexure 1</i>
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	<i>Annexure 2</i>
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	<i>Annexure 6</i>
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	<i>Annexure 7</i>
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	<i>NA</i>
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	<i>NA</i>
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	<i>Annexure 8</i>
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	<i>Model Curriculum</i>
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	
12.	Any other document you wish to submit:	

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	- Product analyst is expected to have basic knowledge of product development process, understand the design, drafting and engineering drawing of product, geometric modelling and assembly techniques. - Basic understanding of finite element method, computer aided software to build the geometry and finite element model, basic knowledge of mesh generation, methods, quality criteria, understating of material data and characteristics and applications, loading and boundary conditions, its types and its application methods to suits the needs of the product. - Knowledge of different analysis methods, types and significance to adopt analyse product and techniques of performing different analysis and interpretation of results. - Knowledge of preparation of reports and techniques and method to suggest the improvements in the products - Product analyst is expected to assist in understanding the Product design development process, understating the design consideration, modelling and assembly techniques, reading, understanding the drawings, preparing bill of materials. - Assisting in building up the Finite element model understanding FE Processes and procedures, selecting the meshing methods and quality checking, preparing the model for different analysis types, analyze, interpret the results,	- Product analyst learns about the basic design process, basics of engineering, geometry modelling, assembling, knowledge of meshing its quality criteria, basics and usage of load and boundary conditions and analysis types. - Product Analyst understands the products development process, design aspect, building the geometry, building the FE Model, analyse and interpret the results. - Carry out the design modification as required based on the modification	NSQF Level 5

	prepare the report and suggest the modification to the product to enhance its performance.		
Professional and Technical Skills/ Expertise/ Professional Knowledge	- Product analyst is expected to assist in design, development and preparation of engineering drawing and bill of material for product. - Generate and modify, assemble, prepare the analysis model, assign the material, loads, boundary condition and analyse the product virtually in the computer aided software, - Extraction of results, preparation of reports and suggest improving methods to upgrade existing. product	Product analyst develops the skills to prepare engineering drawing, prepare the BOM, model the geometry of the product using computers, model the product using finite element method, run the analysis and interpret the results generate the reports and suggest the design modification as per the type and condition of working of product.	NSQF Level 5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Product Verifier and Analyst assist to identify the customer requirement and generate multiple ideas through brainstorming to meet the customer need. - Product Verifier and Analyst assist in defining the product verification process flow, new creation & upgradation in existing design. - Operates the 3D Printer machine, working on 3D printing slicing software after performing the verification process virtually.	- Cognitive skills are developed through product verification module to think creative, innovative, working together for generating ideas on design modifications and developing innovative solutions. - Perceived by intuition to Developing persona, convert the innovative ideas into reality, - Verify the product to design specification to achieve the final product. - Expected to work on software to edit the existing design, apart from creating the design on his /her own	NSQF Level 5
Broad Learning Outcomes/Core Skill	- Product analyst is expected to identify the customer needs, create engineering drawing, BOM, create the computer aided design model and analysis model and virtual assembly of product, modify and update the model, analysing model considering factors affecting the product. - Using the results of the analysis create a documented report of performance of the product. - Understand and apply advanced methods of analysis to improve the performance and optimize the product to suit the requirements. - Maintain the records of the analysis methods to adopt the techniques in future.	Product Analyst builds the skills to understand the customer's requirement, build product, select the material, prepare the BOM, and select the loads, boundary condition, and analysis model to very model.	NSQF Level 5
Responsibility	The jobholder is responsible to:	Suggesting and analysis the model to optimise the	NSQF Level 5

	• Assist to understand product design, drafting, drawing, BOM, modelling and assembly. • Virtually create the product, modify, assemble check the quality using computer aided software • Virtually prepare the analysis model using element, material models, loads and boundary conditions and analyse the model using computer aided software. • Assist in producing the results report. • Finding out the methods to improve the performance of the existing product.	product the get required output with optimised design. • Product Analyst is responsible for the products design, geometry creation, FE modelling, analysing the product, generate the reports and suggest the design modification.	
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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	CAE Software	Static Structural Analysis, Modal Analysis, Topology Optimization, Topology Optimization, Steady State Thermal, Transient Thermal, Conduction, Convection	
2	3D Printer Plastic		2
3	Industrial Workstations compatible with CAE Software		20
4	UPS		1

Classroom Aids

The aids required to conduct sessions in the classroom are:

- 1. Laptop
- 2. Whiteboard and Markers
- 3. Projector
- 4. Screen
- 5. Stationary

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1.
2.

Content availability for previous versions of qualifications:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available:

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
Understanding the product, its design phases and development, engineering concepts for the development of product.	PC 1. Understand basic design and product design, development, design considerations and concepts development for the analysis and basic manufacturing.				
	PC 2. Understanding the products design, drafting and drawing for Modelling, Assembly.				
	PC 3. Identifying the difficulty in the design for modelling (Geometry Development) of the product and provide design modification, prepare the bill of materials for assembly and manufacturing support				
	Total Marks	2	4		6
Comply with the finite element analysis and its processes and procedures to build the Finite Element models.	PC 1. Understand and process of FEA to develop the Finite element model using the software and its interface, tools and techniques.				
	PC2. Selection of the modelling method, element types, meshing method, build the FE model.				
	PC3. Verify the model's quality and update by refining the model if required.				
	Total Marks	2	4		6
Selection of material, loads & boundary and criteria for analysis of product.	PC1. Selection of the material characteristics of the product, loading condition, situation environment the product functions.				
	PC2. Simulating the loads and environmental conditions (boundary), assign the materials and update it if required based on the design and working condition.				
	PC3. Prepare and perform the model for the basic integrity check to understand the behaviour of the product and update the model for actual analysis.				
	Total Marks	2	4		6
Analysing the product for required design criteria and enhancing the design by different methods. Provide design updates	PC1. Understanding the various condition, the product is performing				
	PC2. Selection of the analysis methods and types of analysis and preparing the base model for analysis				
	PC3. Performing the Analysis, extraction and interpretation of results				
	PC4. Reporting the results.				
	PC5. Provide design updates				
	Total Marks	4	8		6
Assignments	PC1 Based on case studies and Industrial application				
	Total Marks	3	7		6
Mini Projects (Based on case studies and Industrial application)	- PC1. Concept modeling of plastic housing for electronic circuit board. - PC2. Geometry editing of turbocharger model - PC3. Drafting of machine tool assembly - PC4. Structural simulation of a snap-fit buckle - PC4. Torsional performance of a gear housing - PC5. Thermal simulation of a CPU cooler				

	- PC6. Flow simulation in electronics enclosure - PC7. Structural Simulation of Wheel Bolt Pretension - PC8. Vehicle Suspension Modal Analysis				
	Total Marks	4	8		6
Employability Skills	- PC1 Understanding the Significance of Employability skills - PC2 Identification the Constitutional values - PC3 Explaining Becoming a professional in the 21st century - PC4 Speak with Others in Basic English skills - PC5 Significance of Career development and goal setting - PC6 Etiquette of Communication skills - PC7 Use Various Financial and legal literacy - PC8 Awareness to Essential Digital Skills				
	Total Marks	3	5		4
Grand Total		20	40		40

Annexure 7: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

<1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

On the Job:

1. Each module will be assessed separately.
2. The candidate must score 60% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
4. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment

Annexure 8: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf