



QUALIFICATION FILE

Assistant CAM Programmer (CNC Milling & Turn Mill)

☒ 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: 3

Submitted By:

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Section 1: Basic Details

1.	Qualification Name	Assistant CAM Programmer (CNC Milling & Turn Mill)	
2.	Sector/s	Capital Goods and Manufacturing	
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/CCM/KSDC/05928	Qualification Name of existing/previous version: Assistant CAM Programmer (CNC Milling & Turn Mill)-V1
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Assistant CAM Programmer (CNC Milling & Turn Mill)	
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-03-CG-05928-2025-V2-KSDC	6. NCrF/NSQF Level: 3
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 is designed to develop skills in CAM software Programming (CNC MILLING & TURN MILL). It provides hands-on experience on various modules of CAM software which includes CNC Mill Programming & CNC Turn-Mill Programming. In this course, students will work on case studies and project work related to various industries. After successfully completing the course and obtaining requisite certification, the students will have career opportunities to work as CAM assistant programmer (CNC Milling), CAM assistant programmer (Turn Mill) in manufacturing roles across automotive, defense, aerospace, locomotive, Construction, Consumer goods industries.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: Grade 10 pass OR Grade 8 pass with two years of (NTC/ NAC) after 8th OR 9th Grade pass with 1.5 -year relevant experience OR 8th Grade pass with 3 -year relevant experience OR 5th grade pass with 7.5-year relevant experience OR Previous relevant Qualification of NSQF Level 2.5 with 1.5-year relevant experience OR Previous relevant Qualification of NSQF Level 2 with 1.5-year relevant experience	

		b. Age: Minimum Age: 15 Years																						
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	10	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable):</i>																					
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA																						
13.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☐ 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>75</td><td>135</td><td>90</td><td></td><td>300</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	75	135	90		300	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	75	135	90		300																			
Online																								
14.	Aligned to NCO/ISCO Code/s <i>(if no code is available mention the same)</i>	7223.5001 Machining Technician/CNC Operator																						
15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	- Assistant CAM Programmer (CNC Milling & Turn Mill) → Associate CAM Programmer (CNC Milling & Turn Mill) → Supervisor (CNC Milling & Turn Mill) - Entrepreneurship																						
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 <i>(Specify the NOS/Module which covers it)</i>	☐ 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 <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	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.	Comply with workshop health and safety guidelines		Non-Core	3	1	5	0			5	2	4		3	9	9
2.	Lathe Advanced Setup(Turn Mill)		Core	3		5	20			25	2	4		3	9	9
3.	Lathe Advanced Tool Application (Turn Mill)		Core	3	1	5	5			10	1	2		2	5	5
4.	Importing 3d data into CAM software		Core	3		5	5			10	1	2		2	5	5
5.	Mill Machine and Control Definition		Core	3		5	5			10	2	4		2	8	8
6.	Mill Tool Manager		Core	3	1	5	5			10	1	2		2	5	5
7.	Mill Setup		Core	3		5	15			20	1	2		2	5	5
8.	Mill Model Preparation		Core	3	1	5	10			15	1	2		2	5	5
9.	Mill Exploring More Surface Finish Operations		Core	3		5	10			15	1	2		2	5	5
10.	Mill Back plot, Simulate and Generate NC		Core	3	1	10	20			30	2	4		3	9	9
11.	Assignments (Based on case studies and Industrial application)		Core	3	1	10	20			30	2	5		6	13	13

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)
12.	OJT (Mini Project -Based on Industrial application)		Core	3	3			90		90	2	5		7	14	14
13.	Employability Skills		Non - Core	3	1	10	20			30	2	2		4	8	8
Duration (in Hours) / Total Marks					10	75	135	90		300	20	40		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) (as per NCVET guidelines)	Graduate in Engineering with 2 years' experience in relevant field and domain certification.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduate in Engineering with 4 years of experience in relevant field and domain certification.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
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) (as per NCVET guidelines)	Graduate in Engineering with 4-year ' experience in relevant field.
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Graduate in Engineering with 2 years' experience in relevant field.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Graduate in Engineering with 6 years of experience in industry or training experience.
4.	Assessment Mode (Specify the assessment mode)	
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)

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>	Annexure 1
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Annexure 2
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Annexure 6
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Annexure 7
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	NA
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	NA
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	Annexure 8
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Model Curriculum
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	Computer Aided Machining Programmer is expected to understand the Engineering drawing and generate a part Program for CNC turn mill or Mill machine.	- Work on CAM software limits, line, construction line, ray, trim, extend, erase, circle, Work on rectangle, copy, move, offset, rotate, array, mirror, scale, stretch, polyline. - Explain the Programming aspect. Identify and demonstrate the software operation for programming a Product	NSQF Level 3
Professional and Technical Skills/ Expertise/ Professional Knowledge	Computer Aided Machining Programmer is expected to have basic knowledge of cutting tool CNC machine specifications, G and M codes used for programing	Knowledge About Cutting Tools and Tool Holders. Cutting Speeds, Feeds and Revolutions Per Minute (CNC Milling & Turn Mill). Explanation of G&M Codes used on CNC machines.	NSQF Level 3
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Working as a member of a team/ within a team. Display Personal Motivation. Positive Attitude & Passion for Work - Good skills in written and oral communication with some clarity, basic knowledge of Language to support such communication. - Intermediate literacy and Numeracy skills - Skills for workshop calculations and basic of arithmetic and algebraic principles. - Good logical and analytical reasoning skills.	- Computer Aided Machining Programmer to assist CNC operator, supervisor for proving the part on CNC machine. Loading of part program in the machine and execute the cycle, find out Work offsets of the component - Explain the Programming aspect. Identify and demonstrate the software operation for programming a Product.	NSQF Level 3
Broad Learning Outcomes/Core Skill	A Computer Aided Machining Programmer is expected to identify the customer's needs. Generate the tool path, understand the sequence of operation, and select proper cutting tool for machining the part. Help production in proving the quality needs	Concept of optimization/ performance improvement of products. Customization and personalization of products.	NSQF Level 3
Responsibility	- Understanding the Engineering part drawing. - Proving the part of the machine. - Checking the component for quality approval. - Explaining to the operator regarding the part program. - Making necessary changes if required.	- CAM programmers are responsible for reading and interpreting blueprints, sketches, drawings, routing instructions, manuals, and specifications & Use of CAM on CNC Milling & CNC Turn Mill machine. - He / is also responsible for tooling and cutting parameters based on material and setup. Provide Engineering and Management information that affects part quality or schedule.	NSQF Level 3

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	Latest version CAM software compatible for running and Internet connection with standard operating system.		10 Nos
2	UPS		1 No
3	Industrial Workstation with the configuration capable of running latest version of CAM software.		20 Nos
4	Coolant concentrate	-	1 No
5	Tool trolley	-	1 No
6	CNC Tool room Lathe	-	1 No
7	4-Station Automatic Tool Turret	-	1 No
8	CPK Coolant Pump Kit,	-	1 No
9	MTS Manual Tailstock	-	1 No
10	Manual 3-Jaw Scroll Chuck hard top reversible jaws	-	1 No
11	Simulator	-	1 No

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
Comply with workshop health and safety guidelines	PC 1. Comply with safety, health, security and environment related regulations/ guidelines as per organizational/ manufacturer's policy.				
	PC 2. Carry out maintenance operations as per the manufacturers and workshop related health and safety guidelines/ standard operating procedures.				
	PC 3. Carry out maintenance operations as per the manufacturers and workshop related health and safety guidelines/ standard operating procedures.				
	PC 4. Use appropriate protective clothing/ equipment for specific tasks and work conditions as per the service manual.				
	PC 5. Record and report details related to operations, incidents or accidents, as applicable.				
	Total Marks	2	4		3
Lathe Advanced Setup (TURN MILL)	PC 1. Select a machine as per operation required.				
	PC 2. Identify the control panel function on machine				
	PC 3. Using the plane Manager				
	PC 4. Machine and Tool Path Group Set Up				
	Total Marks	2	4		3
Lathe Advanced Applications (TURN MILL)	PC 1. Perform C-axis Contour and Cross Contour Milling				
	PC 2. Perform C axis Holes				
	PC 3. Perform Face Counter and Drill				
	Total Marks	1	2		2
Importing 3d data into CAM software	PC 1. Import the 3D model data into computer aided manufacturing software.				
	Total Marks	1	2		2
Mill Machine and Control Definition	PC 1. Setting up a default Machine				
	PC 4. Migration Wizard				
	PC 5. CAM software Tech Exchange				
	Total Marks	2	4		2
Mill Tool Manager	PC 1. Use of tool manager				
	PC 2. Creating Tool Assemblies				
	PC 3. Creating a new tool in tool library.				
	Total Marks	1	2		2
Mill Setup	PC 1. Select the machine as per require milling operation.				

	PC 2. Select the tool as per the mill operation				
	Total Marks	1	2		2
Mill Model Preparation	PC 1. Convert an Important Surface to a Solid				
	PC 2. Simplify a Model Prep Features				
	PC 3. Use Solids and Model Prep Features				
	PC 4. Color Code Faces for Geometry Selection				
	PC 5. Creating Containment Region				
	PC 6. Insert a Fixture				
	Total Marks	1	2		2
Mill Exploring More Surface Finish Operations	PC 1. Finish a 3D shape with flow line				
	PC 2. Pencil Toolpath				
	Total Marks	1	2		2
Mill Back plot, Simulate and Generate NC	PC 1. Verify feature				
	PC 2. Machine Simulation				
	PC 3. Create Backplot				
	PC 4. Generate G Code				
	PC 5. Create a Setup sheet				
	PC 6. Generate a Tool list				
	Total Marks	2	4		3
Assignments	PC1 Based on case studies and Industrial application				
	Total Marks	2	5		6
Mini Projects (Based on case studies and Industrial application)	PC 1. Machining of Auto Component				
	PC 2. Case study of tool Room Industry				
	PC 3. Case study of Mold and Die Industry				
	PC 4. Machining of Aerospace components for: aero engines, aero structure, space etc.				
	PC 5. Machining defense industry component.				
	PC 6. Machining of Heavy equipment Industry				
	PC 7. General Engineering: Fittings, Fasteners, Pumps & Valves				
	PC 8. Addressing of nearby machining Industry component				
	Total Marks	2	5		7
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	2	2		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