

QUALIFICATION FILE

Industrial Engineer - Apparel

☒ 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: 6

Submitted By:

Apparel, Made-ups & Home Furnishing Sector Skill Council

3rd floor, Flat No. A-312 To A-323, Somdatt Chamber-I,

Bhikaji Cama Place,

Africa Avenue,

New Delhi - 110066

E mail id: ceo@sscamh.com

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Section 1: Basic Details

1.	Qualification Name	Industrial Engineer-Apparel											
2.	Sector/s	Apparel											
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: QG-05-AP-01778-2024-V1.1-AMHSSC, Version 3.0		Qualification Name of existing/previous version: Industrial Engineer									
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA											
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-06-AP-03575-2025-V2-AMHSSC, Version 4.0	6. NCrf/NSQF Level: 6										
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate											
8.	Brief Description of the Qualification	An Industrial Engineer is responsible for determining most effective ways to create a product or service in sewing line. Their work includes analysis of the sewing method & process, machine and supervision of production floor for efficiency improvement. Monitor factory performance in terms of quality, delivery, cost-efficiency, and target improvements with the internal factory team and taking necessary corrective action.											
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: b. <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed UG certificate or equivalent</td> <td>1.5 -year relevant experience</td> </tr> <tr> <td>2</td> <td>Previous relevant Qualification of NSQF Level 5</td> <td>3-year relevant experience</td> </tr> </tbody> </table>			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Completed UG certificate or equivalent	1.5 -year relevant experience	2	Previous relevant Qualification of NSQF Level 5	3-year relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)											
1	Completed UG certificate or equivalent	1.5 -year relevant experience											
2	Previous relevant Qualification of NSQF Level 5	3-year relevant experience											
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrf))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): Category I										
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	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>180</td> <td>360</td> <td>60</td> <td>0</td> <td>600</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	180	360	60	0	600	Online									
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	180	360	60	0	600																			
Online																								
		(Refer Blended Learning Annexure for details)																						
14.	Aligned to NCO/ISCO Code/s (<i>if no code is available mention the same</i>)	NCO-2015/2141.0300																						
15.	Progression path after attaining the qualification (<i>Please show Professional and Academic progression</i>)	Production Manager																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																						
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: NA																						
19.	How Participation of Women will be Encouraged	Skilled women workforce will find jobs with organised apparel exporters, manufacturers.																						
20.	Are Greening/ Environment Sustainability Aspects Covered (<i>Specify the NOS/Module which covers it</i>)	☒ Yes ☐ No Adhere to industry, regulatory, and organizational standards and embrace environmentally sustainable practices																						
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: Amit Singh, Email: jdgs@sscammh.com , Contact No.: 09599929121, Website: www.sscammh.com																						
23.	Final Approval Date by NSQC: 18/02/2025	24. Validity Duration: 36 Months			25. Next Review Date 18/02/2028																			

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	Select fabrics, trims and accessories as per specific product category	AMH/N2001 V 5.0	Core	6	5	45	75	30	0	150	20	60	0	10	90	23%
2	Supervise, Analyse and Evaluate Performance on Sewing Floor	AMH/N2002 V 3.0	Core	6	4	33	57	30	0	120	12	42	0	6	60	15%
3	Research and Resolve production problems to implement better production system	AMH/N2003 V 3.0	Core	6	3	21	69	0	0	90	12	42	0	6	60	15%
4	Manage data, forms and instructions for recording, evaluating and reporting quality and reliability data	AMH/N2004 V 3.0	Core	6	3	15	75	0	0	90	14	49	0	7	70	17%
5	Adhere to industry, regulatory, and organizational standards and embrace environmentally sustainable practices	AMH/N0621 V 1.0	Non-Core	5	1	15	15	0	0	30	20	10	0	10	40	10%
6	Maintaining a healthy, safe and secure working environment in the organization with Gender and PwD Sensitization	AMH/N1605 V 4.0	Non-Core	6	1	15	15	0	0	30	6	21	0	3	30	8%
7	Employability Skills(90 Hours)	DGT/VSQ/N 0103 V 1.0	Non-Core	4	3	36	54	0	0	90	20	30	0	0	50	12%
Duration (in Hours) / Total Marks					20	180	360	60	0	600	104	254	0	42	400	100%

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: NA % (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)	Diploma with 4 Year of relevant industry experience in Industrial Engineering OR Graduation with 3 Year of relevant industry experience in Industrial Engineering OR Post graduate diploma with 2 Year of relevant industry experience in Industrial Engineering OR Post Graduate with 1 Year of relevant industry experience in Industrial Engineering
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Graduation with 4 Year of relevant industry experience in Industrial Engineering OR Post graduate diploma with 3 Year of relevant industry experience in Industrial Engineering OR Post Graduate with 2 Year of relevant industry experience in Industrial Engineering
3.	Tools and Equipment Required for Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure) Refer Annexure
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	ITI with 4 Year of relevant industry experience in Industrial Engineering OR Diploma with 4 Year of relevant industry experience in Industrial Engineering OR Graduation with 3 Year of relevant industry experience in Industrial Engineering OR Post graduate diploma with 2 Year of relevant industry experience in Industrial Engineering OR Post Graduate with 1 Year of relevant industry experience in Industrial Engineering
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2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	ITI with 4 Year of relevant industry experience in Industrial Engineering OR Diploma with 4 Year of relevant industry experience in Industrial Engineering OR Graduation with 3 Year of relevant industry experience in Industrial Engineering OR Post graduate diploma with 2 Year of relevant industry experience in Industrial Engineering OR Post Graduate with 1 Year of relevant industry experience in Industrial Engineering
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduation with 4 Year of relevant industry experience in Industrial Engineering OR Post graduate diploma with 3 Year of relevant industry experience in Industrial Engineering OR Post Graduate with 2 Year of relevant industry experience in Industrial Engineering
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Offline
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: 21
5.	Estimated nos. of persons to be trained and employed: 1200
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Ministry Of Textiles is Line Ministry of AMHSSC. If "No", why: NA

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

Annexure: 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	- The IE Executives brings about efficiency in all the production processes of various garments, cushion covers, scarves etc, starting from sampling till the final production and packaging. - The IE Executive on a regular basis needs to choose from a wide range of processes, the most cost efficient and time saving method. Thus an IE executive is involved in Micro level and macro level processes, to bring about efficiency to the entire factory or organization. The IE Executive also works on processes such as lean manufacturing, learning of lean tools and looking for scope of implementation in the unit. - He is also involved in the research and development process for samples prior to production start.	Possesses broad and deep knowledge and skills to solve problems in specialized fields. An industrial engineer (IE) Executive in the apparel industry takes care of various processes, in terms of evaluating their effectiveness and innovating on the same to achieve maximum output with least amount of cost.	6
Professional and Technical Skills/ Expertise/ Professional Knowledge	He has knowledge of various sewing production systems and techniques, understanding of OB (Operation Bulletin), SAM Calculation, machine	Excellent cognitive skills and technical prowess utilized to perform complex tasks with ease,	6

	layout, line setup, line balancing, capacity study and cost estimation of a garment. • He also needs to have the conceptual knowledge and understanding of financial planning and cost analysis of garment business, innovative production tools and methods, feasibility tests, quality checks and garment engineering.	project management expertise, and adept at data analysis for informed decision making. An IE Executive has thorough knowledge of various methodologies to assess productivity, cost, quality and efficiency. He has in-depth understanding of Time study and motion study.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• He has good calculation and analytical ability. • He captures information/data through various time and motion studies and analyzes the captured data. • He uses this to bring in solutions for improving productivity. • He does the cost estimation of a garment. • He also does the financial planning and costing when setting up the units in the garment factory. • He develops and maintains skill matrix. • He does regular calculations such as thread consumption. • He completes accurate well written work with attention to detail. Communicate with others in writing effectively. • Reads& follows guidelines, rules, processes, documents & agreements. Prepare reports of analysis and areas of improvement in the garment factory. • He also gives his input on specific processes. • He reads and understands techpacks, buyer& product specifications. • He reads policies and regulations pertinent to the job. • He interacts with all subordinates to understanding their requirements, queries and feedbacks on various aspects within the organization. • He also interacts with organization's internal stakeholders to ensure efficiency. • He does the performance evaluation of the subordinates.	A versatile professional with excellent communication, digital and financial literacy, ethical values, self-management and may have entrepreneurial mindset. An IE Executive uses his skills to deal with the problem of increased costs or low productivity in a garment factory.	6
Broad Learning Outcomes/Core Skill	• He provides solution by evaluating the entire garment manufacturing process and analyzing the areas where changes can be brought about to improve or make the systems more efficient.	A skilled professional with technical expertise, adept at solving complex problems and improving output.	6

	• He is also involved in the setting up of new systems of production for garment manufacturing and looks after system as well as process efficiency. • He makes decisions on a suitable course of action or response. • He plans and organizes his work to achieve targets and deadlines. • He applies problem-solving approaches in different situations. • He provides opinions on work in a detailed and constructive way. Applies balanced judgments to different situations. • He pays good attention to detail and checks that his work is complete and free from errors. • He ensures his work area is free from potential hazards.	An Industrial Engineer on sewing floor should have good analytical and communication skills and have thorough knowledge of sewing process & different kind of sewing machines & equipment. He/she must have good mathematical and problem-solving skills along with attention to detail.	
Responsibility	• Their work includes analysis of the sewing method & process, machine and supervision of production floor for efficiency improvement. He prepares daily production reports, Monthly improvements reports with graphical presentation. • He does the constant control of direct labour cost. • He does research on new machinery and latest systems that meets companies long term goal and prepares cost benefits analysis and ROI for the same. • He does the operation breakdown of the garment manufacturing process and identifies the exact areas of improvement, implements those changes in the processes and thereby creates a standard operating procedure for each operation. • He is responsible for his own work and learning and also has full responsibility for other's work and learning.	Highly skilled Technical Supervisor responsible for achieving tangible outcomes, managing change, building teams, and mentoring the workforce. An Industrial Engineer is responsible for determining most effective ways to create a product or service in sewing line.	6

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Computer with peripherals and stools & Computer software(e.g. Microsoft office)	software as per requirement	2
2	Garments, made ups and home furnishing samples	as per requirement	3
3	Calculators		30
4	Sewing Kit (Measurement Tape, scissors, trimmers etc.)		30
5	Industrial Single Needle Lock Stitch Machine with needle guard with stools, pouches / baskets for storing items and cleaning cloth		5
6	Machine tool kit		1
7	Basic stationary		30
8	White/Black Board+ Marker+ Duster/Chalk		1
9	Students Notes		30
10	Stopwatches		30
11	Films – Work study, Rating, Sewing Operations – Methods and Time Study quantity may vary as per requirement		2
12	playing cards (quantity may vary as per requirement)		2
13	A4 Graph Book (quantity may vary as per requirement)		2
14	1 Big table and stools for labs	stools as per requirement	6
15	Fire Extinguisher & First Aid & Dustbin	1 each	1
16	Student's Chair With Table Arm		30
17	Teacher's Table & Chair		1
18	Sewing needle , bobbin, bobbin case, tailors chalk, types of pins like safety pin etc.	assortment and as per requirement	10
19	Sewing thread(surplus)		20
20	Trims and accessories(varity, quantity may vary)		5
21	Fabric(surplus, qnt & variety may vary)		50
22	Projector /LCD		1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed)
2. (all software should either be latest version or one/two version below)As required
3. UPS As required

4. Scanner cum Printer As required
5. Computer Tables As required
6. Computer Chairs As required
7. LCD Projector As required
8. White Board 1200mm x 900mm As required

Annexure: 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 of Representative	Designation	State	Email Id	Contact number
1	Esstee Corp	MK Velu	Senior Manager	Maharashtra	sr.mgr.hradmin@essteexports.com	9843259971
2	SVAS Global	Vasavi S.	CEO	TamilNadu	vasavi@svasglobalsourcing.com	9003918705
3	Warmzone	Saakshar Jain	Marketing Head	Punjab	Saakshar.jain@warmline.co.in	8146591155
4	Newline Exports	R Poornachandren	Manager HR	Tamilnadu	hr@newlineexports.com	9842443413
5	Fashionknits	Nushrath R.	HR Manager	Tamilnadu	nusrathr@fashionknits.net	7708074742
6	KBS Garments	B Sateesh	Director	Tamilnadu	Kbs.garments.888@gmail.com	9943457766
7	BEST Corporation	Siva Sarvanan	Sr. HR Manager	Tamilnadu	siva@bestcorp.in	7502242242
8	Indian Textile Company	Yogesh Nimish	HR Manager	Maharashtra	NA	9168453836
9	Trident	Nasreen Ahmed	Head Product Development	Punjab	nasreenshmed@tridentindia.com	9878999237
10	5 Star Garment	Dinesh Dongre	Manager	Maharashtra	ddongre100@gmail.com	8806405410
11	High Heads Pvt Ltd	Zunaid	Manager	Tamilnadu	workshop@thehighheads.com	6283270076
12	RUSTA	Amitoj Bal	Sourcing Manager	Delhi	Amitoj.bal@rusta.com	9873000263
13	Women Era	Nutan A Shaw	Owner	Maharashtra	NA	NA
14	Iris Corp	Sudarshan Jain	Director	Punjab	Irisknitwear86@gmail.com	9876326111
15	Warmline Jackets	Vishal S	Manager	Punjab	info@warmlinejacket.com	9815495806
16	Alok Ent	Ankush Waman	Owner	Maharashtra	NA	NA
17	Bayport	Amit Sharma	Category Head	Ahmedabad	amitsharma@bayport.com	9582038033

18	Dhareshwar Multiservices	Yogesh Misal	Partner	Maharashtra	NA	NA
19	Shubham Enterprises	Pradip Kumar	Owner	Maharashtra	jshubham@yahoo.co.in	NA
20	Aathava Garments pvt ltd.	Ganesh Kumar J	Manager	Tamilnadu	info@aathavagarments.com	0422-2565716
21	LUX Industries	Buvana M	HR Manager	Tamilnadu	info@luxinnerwear.com	+913340402121

Annexure: 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
2023	200	172	155	112	NA	NA
2024	400	317	273	106	NA	NA
2025	600	423	470	311	NA	NA

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
Version 2.0	2022	190	160	156	106	156	152	149	101	NA	NA	NA	NA
Version 1.0	2021	181	153	149	101	148	145	141	96	NA	NA	NA	NA
Version 1.0	2020	174	145	141	96	141	138	134	91	NA	NA	NA	NA

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. PMKVY
2. DDUGKY
3. NULM

Content availability for previous versions of qualifications:

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

Languages in which Content are available:

Hindi

Annexure: Detailed Assessment Criteria

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

AMH/N0621: Adhere to industry, regulatory, and organizational standards and embrace environmentally sustainable practices					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC1	Execute job responsibilities according to organizational standards, with a strong emphasis on eco-friendly solutions, while strictly adhering to established procedures, policies, and legal regulations.	2	1	-	1
PC2	Implement and uphold organizational policies and procedures, integrating sustainable consumption practices into daily operations.	2	1	-	1
PC3	Actively engage in enhancing organizational performance by driving the transition towards environmentally friendly processes and practices.	2	1	-	1
PC4	Safely handle materials, equipment, computers, and software to maintain a clean and hazard free work environment, actively supporting the adoption of eco-friendly practices throughout the workplace.	3	2	-	2
PC5	Perform routine maintenance and cleaning tasks within assigned duties and agreed-upon schedules, effectively managing any interruptions to workflow.	3	1	-	1
PC6	Immediately report any instances of unsafe equipment or hazardous incidents to the appropriate personnel to ensure swift resolution and mitigate risks.	2	1	-	1

PC7	Utilize appropriate cleaning equipment and techniques tailored to specific tasks, promoting efficiency and sustainability in workplace maintenance.	2	1	-	1
PC8	Proactively request system or software upgrades as necessary to optimize work efficiency, while also maintaining backup files to ensure data integrity and security when using various design software.	2	1	-	1
PC9	Maintain digital copies of design work in organized files for future reference, ensuring accessibility and preservation of valuable project assets.	2	1	-	1
	NOS Total	20	10		10
AMH/N1605: Maintaining a healthy, safe and secure working environment in the organization with Gender and PwD Sensitization					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC1	Comply with health safety gender and PwD (People with disability) related instructions applicable to the workplace	1	4	-	0.5
PC2	Use and maintain materials and equipment as per protocol	1	3		0.5
PC3	Monitor the work place and processes for potential risks and threats and report hazards and potential risks/ threats to supervisors or other authorized personnel	1	3	-	0.5
PC4	Actively participate in mock drills/ evacuation procedures; group discussions, training sensitization programs for gender and PwD awareness organized at the workplace	1	5	-	0.5
PC5	Capable to perform first-aid, firefighting or any other emergency response procedures	1	3	-	0.5
PC6	Follow organization procedures for shutdown and evacuation when required	1	3	-	0.5
	NOS TOTAL	6	21	-	3
AMH/N2001: Select fabrics, trims and accessories as per specific product category					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks

PC1	Identify and select fabric suitability with respect to construction, aesthetic appeal color and design	5	15	-	3
PC2	Identify and select fabric, trims and accessories with respect to end usage, functionality and applicability like heat transmission, moisture transfer, crease resistance, pilling, static electricity, and launder-ability.	5	15	-	3
PC3	Identify and select fabric based on buyer requirements, availability, processing lead time and organization's expertise	5	15	-	2
PC4	Identify and select fabrics, trims and accessories keeping in mind the cost parameters' consumption and wastage	5	15	-	2
	NOS Total	20	60	-	10
AMH/N2002: Supervise, Analyze and Evaluate Performance on Sewing Floor					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC1	Set goals and targets as per production directives for all operators in a production line	0.5	2	-	0.5
PC2	Create quantified measures and metrics to analyze the performance delivered by operators as per the goals and targets assigned	2	5	-	0.5
PC3	Monitor and supervise all the activities performed by operators and ensure strict implementation and optimization to achieve the set goals	1	3	-	0.5
PC4	Review production schedules, engineering specifications, orders, and related information to obtain knowledge of manufacturing methods, procedures, and activities	1	7	-	0.5
PC5	Evaluate performance of operators and reporting on the designed measures and metrics as per the production guidelines	1	4	-	0.5
	<i>Analyze and evaluate performance on production floor</i>	6.5	21	-	3.5
PC6	Assist and support concerned line supervisors whenever necessary or applicable	1	1	-	0.5
PC7	Study operations sequence, material flow, functional statements to evaluate the production flow process	2	5	-	0.5
PC8	Evaluate precision and accuracy of production and testing equipment and layout to formulate corrective action plan ensure daily targets, productivity and efficiency are maintained	1	5	-	0.5
PC9	Analyze statistical data and product specifications to determine standards and establish quality and reliability objectives of finished product.	1	6	-	0.5

PC10	Hourly production follow up; and check Daily Non-productive time (NPT) and reduce machine breakdown time	1	3	-	1
PC11	Handover all the documents and appropriate support measures to human resources department for official records	0.5	1	-	0.5
	NOS Total	12	42	-	6
AMH/N2003: Research and Resolve production problems to implement better production system					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC1	Apply statistical methods and perform mathematical calculations to determine manufacturing process problems.	1	10	-	1
PC2	Review production process in terms of method machine and manpower machine requirement	2	3	-	0.5
PC3	Identify & analyze different type of production system & their feasibility with product requirement	2	7	-	1
PC4	Develop manufacturing methods, labor utilization standards, and cost analysis systems to promote efficiency & productivity	1	7	-	1
PC5	Identify the appropriate method of garment manufacturing	2	7	-	1
PC6	Carry out process re-engineering & set the production bench marks	1	5	-	0.5
PC7	Recommend methods for improving utilization of personnel, material, and utilities	3	3	-	1
	NOS Total	12	42	-	6
AMH/N2004: Manage data, forms and instructions for recording, evaluating and reporting quality and reliability data					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC1	Oversee recording of information to ensure currency of engineering drawings and documentation of production problems.	1	3	-	0.5
PC2	Supervise and maintain documentation of various processes, functions and reports as per specified formats in an organized manner.			-	1

		3	8		
PC3	Use data management software effectively to store information.	1	12	-	1
PC4	Document the operation bulletin created to estimate SAM with productivity at costing stage	2	7	-	1
PC5	Record special and new operations to video and build database for operations with sewing data analysis software.	2	6	-	1
PC6	After checking and validating the operation bulletin and the SAM in production floor and thereby regulating the unnecessary operations, document the same as per organizations procedure and protocol.	1	3	-	0.5
	<i>Record Keeping</i>	4	10	-	2
PC7	Store the records, SOPs and other analysis documents in such a way that it can be retrieved easily whenever required.	2	4	-	1
PC8	Ensure safety and security of data; and maintain confidentiality of the reports/data/analysis, wherever applicable.	2	6	-	1
	NOS Total	14	49	-	7
DGT/VSQ/N0103 Employability Skills (90 Hours)					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	<i>Introduction to Employability Skills</i>	1	1	0	0
PC1	Understand the significance of employability skills in meeting the current job market requirement and future of work.				
PC2	Identify and explore learning and employability relevant portals				
PC3	Research about the different industries, job market trends, latest skills required and the available opportunities.				
	<i>Constitutional values – Citizenship</i>	1	1	0	0
PC4	Recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.				
PC5	Follow environmentally sustainable practices				
	<i>Becoming a Professional in the 21st Century</i>	1	3	0	0
PC6	Recognize the significance of 21st Century Skills for employment				
PC7	Practice the 21st Century Skills such as Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal and professional life				
PC8	Adopt a continuous learning mind-set for personal and professional development				

	<i>Basic English Skills</i>	3	4	0	0
PC9	Use basic English for everyday conversation in different contexts, in person and over the telephone				
PC10	Read and understand routine information, notes, instructions, mails, letters etc. written in English				
PC11	Write short messages, notes, letters, e-mails etc. in English				
	<i>Career Development & Goal Setting</i>	1	2	0	0
PC12	Identify career goals based on the skills, interests, knowledge, and personal attributes				
PC13	Prepare a career development plan with short- and long-term goals.				
	<i>Communication Skills</i>	2	2	0	0
PC14	Follow verbal and non-verbal communication etiquette while communicating in professional and public settings				
PC15	Use active listening techniques for effective communication				
PC16	Communicate in writing using appropriate style and format based on formal or informal requirements				
PC17	Work collaboratively with others in a team				
	<i>Diversity & Inclusion</i>	1	1	0	0
PC18	Communicate and behave appropriately with all genders and PwD				
PC19	Escalate any issues related to sexual harassment at workplace according to POSH Act				
	<i>Financial and Legal Literacy</i>	2	3	0	0
PC20	Identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.				
PC21	Carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook				
PC22	Identify common components of salary and compute income, expenses, taxes, investments etc.				
PC23	Identify relevant rights and laws and use legal aids to fight against legal exploitation				
	<i>Essential Digital Skills</i>	3	5	0	0
PC24	Operate digital devices and use their features and applications securely and safely				
PC25	Carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.				
PC26	Display responsible online behaviour while using various social media platforms				
PC27	Create a personal email account, send and process received messages as per requirement				
PC28	Carry out basic procedures in documents, spread sheets and presentations using respective and appropriate applications				
PC29	Utilize virtual collaboration tools to work effectively				
	<i>Entrepreneurship</i>	2	3	0	0

PC30	Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research				
PC31	Develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion				
PC32	Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity				
	<i>Customer Service</i>	1	2	0	0
PC33	Identify different types of customers and ways to communicate with them				
PC34	Identify and respond to customer requests and needs in a professional manner				
PC35	Use appropriate tools to collect customer feedback				
PC36	Follow appropriate hygiene and grooming standards				
	<i>Getting ready for apprenticeship & Jobs</i>	2	3	0	0
PC37	Create a professional Curriculum vitae (Résumé)				
PC38	Search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively				
PC39	Apply to identified job opening using offline /online methods as per requirement				
PC40	Answer questions politely, with clarity and confidence, during recruitment and selection				
PC41	Identify apprenticeship opportunities and register for it as per guidelines and requirements				
	NOS Total	20	30	0	0
	GRAND TOTAL	112	289	0	49

Annexure: 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 (which covers the job profile of Automotive Service Assistant Technician) 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: 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

NSQF