QUALIFICATION FILE – PM Vishwakarma

Armourer (Advanced)

NCrF/NSQF Level: 3.0

Submitted By:

Capital Goods and Strategic Skill Council

39,1st Floor, Samyak Tower, Pusa Rd, Block 9A, WEA, Karol Bagh, New Delhi, Delhi, 110005

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Section 1: Basic Details

1.	PM Vishwakarma -Qualification Name	Armourer (Advanced)	
2.	Sector	Capital Goods	
3.	Related Qualification Available on NQR *(wherever applicable)*	Name: NA	NQR Code & version: NA & Version 1.0
4.	National Qualification Register (NQR) Code & Version *(Will be issued after NSQC approval.)*	NG-03-CG-02323-2024-V1-CGSC	5. NCrF/NSQF Level: 3.0
6.	Brief Description of the Job Role	The incumbent in the job is responsible for performing basic sheet metal cutting, forming and assembly operations for making armours.	
7.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: **Academic/Skill Qualification (with Specialization - if applicable)** Existing Vishwakarma's duly verified as per the Scheme b. Age: NA	
8.	Credits Assigned to this Qualification, Subject to Assessment *(as per National Credit Framework (NCrF))*	4	9. Common Cost Norm Category (I/II/III): I
10.	Any Licensing Requirements for Undertaking Training on This Qualification *(wherever applicable)*	NA	

11.	**Training Duration by Modes of Training Delivery** *(as per requirement of the qualification)*				
		Training delivery mode	**Theory(Hours)**	**Practical (Hours)**	**Total (Hours)**
		Classroom (offline)	42	78	120
		Online	-	-	-
		Total Duration	42	78	120
12.	**Is the Qualification Amenable to Persons with Disability**	☐ **Yes ☒ No If "Yes", specify applicable type of Disability:**			
13.	**Name and Contact Details Submitting / Awarding Body SPOC** *(In case of CS or MS, provide details of both Lead AB & Supporting ABs)*	**Name: Ms. Shalini Singh** **Email: ceo@cgssc.org** **Contact No.: 9654310244** **Website: www.cgsc.in**			
14.	**Final Approval Date by NSQC: 15/03/2024**	**Validity Duration: 3 years** (Co-terminus with the PM Vishwakarma Scheme subject to midway changes in the qualification)		**15. Next Review Date: 15/03/2027**	

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Section 2: Tools and Equipment Details
List of Tools and Equipment

Batch Size: <u>30 candidates</u>

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Hand lever shearing		15
2	Oxy gas cutting torch		4
3	Angle grinder		8
4	Digital Vernier Caliper		30
5	Cutting wheel		2
6	Wire extension		1
6	Safety helmet		15
7	C Clamp		6
8	Leathergloves		30
9	Polishing buff wheel		15
10	Nylon Hammer		15
11	Wire brush		15
12	ScrubberPad		30
13	Safety goggles		30
29	3000 lumens. Screen.		1
31	Vice mounted tables		4
33	Measuring tools		8
34	Hand tools		30
35	Marking tools		2
36	Power saw		1
37	Saw		15
38	Pop rivet gun		6

Classroom Aids

The aids required to conduct sessions in the classroom are:

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1. PC/Laptop
2. Screen Projector
3. Screen
4. Marker
5. White Board
6. Duster
7. Smart Phone

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Section 3: Performance Criteria & Assessment Criteria

Scope:

The scope covers the following:

1. Overview of PM Vishwakarma Scheme:

2.   Upskilling on working with the listed modern Tool- kit for Armourer to perform operations using modern tools:
*   Carry out sheet metal cutting using Laser cutting machine
*   Carry out assembling operation using air hydraulic rivetter and drilling machine
*   Carry out the finishing of products/ workpiece using cleaning liquid and hand polishing machine

3. Self-Employment:

*   Design and Innovation
*   How to setup a safe workplace
*   Leadership & Teamwork
*   Communication Skills: Listening & Speaking
*   Problem Solving & Negotiation Skills
*   Market research and analysis
*   Networking and Industry exposure
*   Business Entity Registration
*   Business Plan

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Performance Criteria & Assessment Criteria

S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
Overview of PM Vishwakarma Scheme					
1	**Upskilling on working with the listed modern Tool- kit for "Armourer – Advanced" to perform operations using modern tools**	30	60		10
2	**Self Employment**	30	70		
3	**Marketing and outreach- Advanced**	50	50		
4	**Advanced Financial Literacy Module**				60
5	**Module Digital Literacy-Advanced**	45	55		
Grand Total		155	235		70
Upskilling on working with the listed modern Tool- kit for "Armourer – Advanced" to perform operations using modern tools		**30**	**60**		**10**
Carry out sheet metal cutting using Laser cutting machine		10	15	-	2
PC 1.	Demonstrate the ability to precisely cut sheet metal according to specified dimensions.	-	-	PC 1.	-
PC 2.	Complete cutting tasks within designated timeframes while maintaining quality standards.	-	-	PC 2.	-
PC 3.	Adhere to all safety protocols when operating the laser cutting machine, including wearing appropriate protective gear and following machine-specific safety procedures.	-	-	PC 3.	-

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S. No.	Modules	Assessment Criteria			
		Theory Marks	**Practical Marks**	**Project Marks**	**Viva Marks**
PC4.	Minimize material waste by efficiently arranging cuts on the sheet metal.				
Carry out assembling operation using air hydraulic rivetter and drilling machine		10	25	-	4
PC 4.	Assemble components accurately according to technical specifications and assembly diagrams.	-	-	PC -	-
PC 5.	Complete assembly tasks within given time constraints without compromising quality.	-	-	PC -	-
PC 6.	Identify and resolve any issues that may arise during the assembly process, such as misalignments or part defects.	-	-	PC -	-
PC 7.	Perform routine maintenance on the air hydraulic riveter and drilling machine to ensure optimal performance and longevity.	-	-	PC -	-
Carry out the finishing of products/ workpiece using cleaning liquid and hand polishing machine		10	20	-	4
PC 8.	Achieve a smooth and uniform finish on the workpiece through effective cleaning and polishing techniques.	-	-	PC -	-
PC 9.	Ensure all imperfections, such as burrs or rough edges, are removed during the finishing process.	-	-	PC -	-
PC 10.	Maintain consistency in the quality of the finished products across batches.	-	-	PC -	-
PC 11.	Handle cleaning liquids and polishing machines safely, following proper procedures to avoid accidents or injuries.	-	-	PC -	-

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S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
Self-Employment		**30**	**70**	**0**	**0**
Design and Innovation		2	3		
PC 1.	create innovative and aesthetically pleasing designs for Armourer products.	-	-	PC -	-
PC 2.	Incorporate unique elements that set the business apart from competitors.	-	-	PC -	-
PC 3.	Adapt to new design trends and customer preferences.	-	-	PC -	-
How to setup a safe workplace		4	7		
PC 4.	Implement safety protocols and procedures to minimize workplace hazards.	-	-	PC -	-
PC 5.	Provide adequate training to employees on safe handling of tools and equipment.	-	-	PC -	-
PC 6.	Regular inspections conducted to ensure compliance with safety regulations.	-	-	PC -	-
Leadership & Teamwork		3	25		
PC 7.	Demonstrate strong leadership skills in guiding and motivating team members.	-	-	PC -	-
PC 8.	Collaborate with employees to foster a positive work environment and achieve business goals.	-	-	PC -	-
PC 9.	Delegate tasks effectively based on individual strengths and abilities.	-	-	PC -	-
Communication Skills: Listening & Speaking		3	10		
PC 10.	Practice active listening to understand the needs and concerns of employees, customers, and stakeholders.	-	-	PC -	-
PC 11.	Practice clear and effective communication of instructions, feedback, and business objectives.	-	-	PC -	-

S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
PC 12.	Articulate ideas and concepts convincingly during presentations or negotiations.	-	-	-	-
Problem Solving & Negotiation Skills		2	5		
PC 13.	Prompt identification and resolution of challenges encountered during business setup.	-	-	-	-
PC 14.	Negotiation of favorable terms with suppliers, vendors, and clients.	-	-	-	-
PC 15.	Creative problem-solving to overcome obstacles and achieve business objectives.	-	-	-	-
Market research and analysis		2	5		
PC 16.	Thorough market research conducted to identify target demographics, competitors, and trends.	-	-	-	-
PC 17.	Analysis of market data to determine demand for specific products and pricing strategies.	-	-	-	-
PC 18.	Continuous monitoring of market dynamics to adapt business strategies accordingly.	-	-	-	-
Networking and Industry exposure		7	5		
PC 19.	Active participation in industry events, trade shows, and networking forums.				
PC 20.	Establishment of relationships with other artisans, suppliers, and potential clients.				
PC 21.	Leveraging industry connections to stay informed about emerging opportunities and trends.				
Business Entity Registration		3	5		
PC 22.	Completion of all necessary paperwork and documentation for business registration.				
PC 23	Compliance with legal requirements and regulations governing Armourer businesses.				

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S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
PC 24	Timely submission of registration forms and payment of associated fees.				
Business Plan		4	5		
PC 25	Development of a comprehensive business plan outlining goals, strategies, and financial projections.				
PC 26	Clear articulation of the business's mission, vision, and value proposition.				
PC 27	Regular review and updating of the business plan to reflect changes in market conditions and business objectives.				
GENERIC MODULES					
Modules	Performance criterion				
Digital Literacy-Advanced		45	55		
Module 1: Advanced features of using mobile phones (Smart phones)	PC1: Use the mobile phone in a secure way by locking/unlocking phone/apps using various options like face recognition, fingerprint etc. PC2: Use advanced camera features for business tasks, like scanning QR codes. PC3: Crop photos, take screenshots, and share them as attachments. PC4: Understand how to use features like conference calls, call recording, and call forwarding. PC5: Access and manage documents stored in different folders in phone. Eg. File folder, download folder, etc. PC6: Manage phone memory and data storage. PC7: Use other features of smartphone such as Airplane mode, Do Not Disturb, Bluetooth, other sharing services etc. PC8: Using voice assistant on Smartphones for tasks like setting reminders, asking questions, etc.	10	10		
Module 2: Using advanced Internet and	PC1: Connect to internet using Wi-Fi, Mobile Data. PC2: How to secure various apps installed on phone.	20	30		

S. No.	Modules	Assessment Criteria			
		Theory Marks	**Practical Marks**	**Project Marks**	**Viva Marks**
mobile applications (Apps)	PC3: Using mobile applications to compress pictures and documents. PC4: Access, store, and share documents using Google Drive from your phone. PC5: Use apps for managing schedules and appointments. PC6: Utilize Advanced Features of WhatsApp, Gmail, Google Maps, PayTM, and other social media applications such as Facebook and YouTube. PC7: Using Video conferencing features in different apps (Zoom etc.) PC8: Create and improve business profiles on relevant social media platforms to reach more customers using features of geo-tagging. PC9: Interact with customers by responding to messages and comments promptly, and share business-related content effectively. PC10: Using applications for customer service interaction (chat and voice calls) PC11: Usage of common applications like currency conversion, interest calculation etc. PC12: Usage of apps to help in various trades like carpenter, tailor etc. (Measurement and calculation apps, find and obtain construction material, manage inventory, learn new techniques and best practices in their specific trade)				
Module 3: Privacy and security related to Internet and mobile phones	PC 1: Identification of authentic calls and blocking SPAM calls PC 2: Apply safe and ethical browsing practices (protecting identity) online privacy and the potential risks associated with social media use. PC 3: Understand how to safely store passwords and apply the same. PC 4: Identify common online harassment scenarios (e.g., hate speech etc, cyberbullying), prevention, consequences and ways to deal with them. PC 5: Understanding fake and real information, importance of verifying the content available on the net and also understanding the responsibility while sharing any content. PC 6: Learn to identify deep fake AI generated frauds and reporting to the concerned authorities.	15	15		
Marketing and outreach- Advanced		50	50		

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S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
Module 1: Marketing and Customer Insights	PC 1: Conduct marketing activities for artisian products. PC 2: Evaluate customer feedback to improve product offerings and marketing strategies.	10	10		
Module 2: Quality Assurance and Certification in Craftsmanship	PC 3: Obtain relevant quality certifications such as e ISI mark, Agmark and Hallmark. PC 4: Manage product quality as per quality standards.	10	10		
Module 3: Brand Development and Promotion Strategies	PC 5: Understand brand identity to enhance sales and promotion. PC 6: Promote products through Social media and digital marketing. PC 7: Leverage National Marketing Committee support in operations and logistics.	10	10		
Module 4: E-Commerce Management for Artisans	PC 8: Onboarding e-commerce platform. PC 9: Understand process of cataloguing the products and services of Vishwakarmas PC 10: Apply strategies for e-commerce linkage with GeM, Khadi India, MSME Mart.	10	10		
Module 5: Building Trade Network for Craft Business	PC 11: Use digital marketing for wider reach and publicity of the Vishwakarma Scheme. PC 12: Identify and collaborate with relevant Industry Bodies. PC 13: Create links with suitable exporters and traders operating under the sector.	5	5		
Module 6: Trade Fairs and Exhibitions	PC 14: Participate in trade fairs, exhibitions related to the products. PC 15: Set up collective display of PM Vishwakarma Products to associations of the artisan groups.	5	5		

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S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
Advanced Financial Literacy Module					60
Module 1: Importance of Being Financial Literate	PC1: Explain advanced financial terms such as long and short-term assets, liabilities, investments, debit, credit, etc PC2: Understand various types of business-related financial transactions and their uses in business scenarios PC3: Describe various types of payment methods such as cheques, UPI, RTGS etc PC4: Use mobile applications and online platforms to track expenses and manage financial goals (mention some names). PC5: Know about various Government schemes such as Pradhan Mantri Jan Dhan Yojana, Jeevan Jyoti Bima Yojana, Suraksha Bima Yojana, Sukanya Samriddhi Yojana, National Pension Scheme (NPS), Atal Pension Yojna (APY)				10
Module 2: Managing bank account	PC1: Know various banking services offered by bank such as transfer-receipt of money, deposit-withdrawal etc. PC2: Operate ATM, Deposit Cash/ Cheque through machines or manually PC3: Visit branch to operate and manage bank accounts PC4: Use mobile and net banking to operate and manage bank accounts PC5: Follow safety measures while managing bank accounts				10
Module 3: Managing Loans	PC 1: Know various types and features of secured and unsecured loans PC 2: Identify appropriate type of loan as per need, purpose, and loan terms and conditions PC 3: Select the loan repayment structure based on the interest rate and duration. PC 4: Legal process for resolution of delay/ default in payment of loan instalment				10
Module 4: Basic Understanding of taxes	PC 1: Know various types of Taxes such as Income tax, Goods and Services Tax (GST), etc. PC 2: Explain simple terms related to taxation such as taxable income, tax rates, Tax Deductible at Source (TDS), Value of Goods etc. PC 3: Understand important concepts and applicability of income tax and GST				10

S. No.	Modules	Assessment Criteria			
		Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC 4: Understand Basic guidelines for filing income tax and GST returns, including deadlines				
Module 5 : Using advanced features of Digital Payment Applications	PC 1: Install and configure Digital Payment Applications PC 2: Learn and practice advanced features of Digital Payment Applications such as wallets, bill payments, recharge etc. PC 3: Perform transactions using Digital Payment Applications such as UPI, RTGS, NEFT, IMPS etc.				10
Module 6: Awareness and Prevention of Financial Frauds	PC 1: Identify common online financial frauds and spams and associated potential risks PC 2: Apply safe and ethical practices for securing online transactions				10
Grand Total		155	235		70

(*Assessment Criteria may be specified at Element/PC level as per the requirement.*)

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Section 4: Trainers & Assessors

1.	**Trainer's Qualification and experience in the relevant sector (in years)**	**Domain Trainer:** *a) ITI Instructors from Directorate General of Training (DGT) ecosystem who have preferably worked in the industry and have technical know-how about the operations of the modern listed tools in relevant trades* *b) Certified trainers from the NCVET recognized Awarding Bodies* *c) Working professionals from the industry or clusters who have good knowledge and experience about the working/ operations of the listed modern tools in the relevant trades* **Life Skills Trainer:** *a) ITI Instructors from Directorate General of Training (DGT) ecosystem** *b) Certified trainers from the recognized Awarding Bodies** ***Mandatory Training of Trainers (ToT) of existing certified trainers on employability and entrepreneurship skills modules**
2.	**Assessor's Qualification and experience in relevant sector (in years)**	**Assessor:** *a) Certified Assessors of the recognized Assessment Agencies* *b) Certified trainers may also get certified as an Assessor to conduct assessments in relevant trades* *(A Trainer can also act as an Assessor for a different location)*

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		C) Working professionals from the industry or clusters who have good knowledge and experience about the working/ operations of the listed modern tools in the relevant trades and experience in technical assessments in current and previous assignments.

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Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
CSDCI	Construction Skill Development Council of India

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.

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