

National Occupational Standards



Boat Maker (Advance)

Unit Code: FFS/N2232

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NSQF Level: 3

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National Occupational Standards

Description

This qualification is designed to elevate participants with their boat making and project execution skills with a strong emphasis on precision. The program prioritizes employability, refining communication and problem-solving, while also imparting marketing expertise, digital literacy for online presence, and financial literacy for effective business management and sustained growth. This comprehensive program equips boat makers not only with technical proficiency but also with the strategic tools needed to thrive in a dynamic market environment.

Scope

The scope covers the following :

- Advanced training on working with the listed modern tools and equipment for Boat Makers
- Entrepreneurship Skills and Design Innovations in Boat Making
- Advanced Digital Skills
- Advanced Financial Skills
- Advanced Marketing and Outreach Skills

Elements and Performance Criteria

Advanced training on working with the listed modern tools and equipment for Boat Makers: Setting up and organizing the workplace

To be competent, the user/individual on the job must be able to:

- PC1.** organize and maintain the worksite effectively
- PC2.** perform the safe storage of tools and equipment
- PC3.** ensure proper maintenance and calibration of tools.
- PC4.** employ efficient methods in keeping a worksite clean
- PC5.** perform debris removal and dispose of waste appropriately after work completion
- PC6.** perform the selection and organization of the suitable workbenches for various boat making tasks

Advanced training on working with the listed modern tools and equipment for Boat Makers: Advanced Tools for Boat Making

To be competent, the user/individual on the job must be able to:

- PC7.** employ safety measures for operating advanced tools and machinery
- PC8.** identify and select the right tools for specific tasks
- PC9.** demonstrate the process of operating and handling a stationary combi planner machine
- PC10.** demonstrate the process of operating and handling a mitre saw machine
- PC11.** operate and maintain a portable dust collector during machine usage
- PC12.** practice the usage of portable electric sanding machine for surface finishing
- PC13.** demonstrate the process of operating and handling a pneumatic air band nailer
- PC14.** operate the compressor machine efficiently based on process requirement

Advanced training on working with the listed modern tools and equipment for Boat Makers: Technical Drawing

To be competent, the user/individual on the job must be able to:

National Occupational Standards

- PC15.** read and accurately apply details from complex blueprints to boat making projects.
- PC16.** develop technical drawings for boat making projects with a focus on accuracy and adherence to standards.
- PC17.** produce orthographic projections based on technical drawings for boat making projects
- PC18.** apply technical drawing skills to solve practical boat making challenges.
- PC19.** perform drawings modification to meet evolving project requirements.

Advanced training on working with the listed modern tools and equipment for Boat Makers: Efficient Woodworking and Advanced Techniques

To be competent, the user/individual on the job must be able to:

- PC20.** choose suitable wood species based on project requirements and characteristics.
- PC21.** demonstrate efficiency in employing advanced techniques for material layout and cutting.
- PC22.** utilize advanced tools for efficient cutting, planing, and shaping.
- PC23.** apply modern strategies to minimize material wastage.
- PC24.** manage time effectively during various woodworking processes.
- PC25.** apply traditional and modern finishing techniques with precision.

Advanced training on working with the listed modern tools and equipment for Boat Makers: Advanced Wooden Boat Construction

To be competent, the user/individual on the job must be able to:

- PC26.** implement advanced techniques, ensuring structural integrity and standards.
- PC27.** perform Fine-tuning rigging for enhanced boat performance and efficiency.
- PC28.** perform comprehensive boat maintenance, including inspections and repairs.
- PC29.** incorporate advanced materials in boat construction.
- PC30.** restore antique boats with precision, considering authenticity and craftsmanship.
- PC31.** use traditional methods to preserve and protect wooden boats.
- PC32.** Implement eco-friendly practices in boat maintenance for sustainability
- PC33.** document restoration processes for future reference and historical records

Entrepreneurship Skills and Design Innovations in Boat Making: BIS Standards in boat making

To be competent, the user/individual on the job must be able to:

- PC34.** implement and adhere to BIS standards for the selection and usage of woodworking materials.
- PC35.** comply with specific BIS codes for wood, adhesives, finishes, and other relevant materials.
- PC36.** adhere to BIS quality control measures for ensuring product quality.
- PC37.** implement BIS standards for various boat making processes, including cutting, shaping, and finishing.

Entrepreneurship Skills and Design Innovations in Boat Making: Entrepreneurship Fundamentals

To be competent, the user/individual on the job must be able to:

- PC38.** display fundamental entrepreneurship principles relevant to boat making.
- PC39.** recognize and assess potential business opportunities within boat making.
- PC40.** display skills to identify and navigate through different stages of entrepreneurship journey in boat making business
- PC41.** develop a comprehensive professional portfolio showcasing boat making skills and projects.

National Occupational Standards

PC42. execute effective customer interaction and client servicing skills in simulated scenarios.

Entrepreneurship Skills and Design Innovations in Boat Making: Design, Innovation, and Materials

To be competent, the user/individual on the job must be able to:

PC43. research and practically apply current design elements and trends in boat making.

PC44. demonstrate the compatibility to integrate sustainable materials into boat making projects.

PC45. modify designs based on current market trends and customer preferences.

PC46. utilize technology tools to enhance boat making designs effectively.

PC47. communicate and present design concepts persuasively to clients and stakeholders.

Entrepreneurship Skills and Design Innovations in Boat Making: Finance and Business Growth

To be competent, the user/individual on the job must be able to:

PC48. develop a comprehensive financial plan with accurate projections.

PC49. conduct in-depth research on funding and investment opportunities for boat making business growth.

PC50. create a business proposal exceeding industry standards in boat making.

Entrepreneurship Skills and Design Innovations in Boat Making: Communication and Pitching

To be competent, the user/individual on the job must be able to:

PC51. showcase skills in client communication and relationship management.

PC52. display efficient presentation techniques and public speaking skills.

PC53. demonstrate skills to deliver compelling business pitches for diverse audiences.

Entrepreneurship Skills and Design Innovations in Boat Making: Business Sustainability and Growth Strategies

To be competent, the user/individual on the job must be able to:

PC54. conduct thorough research on potential expansion opportunities and collaboration strategies.

PC55. actively engage in networking activities and establish beneficial partnerships.

PC56. develop an in-depth and dynamic long-term growth plan for boat making business.

Advanced Digital Skills: Advanced features of using mobile phones (Smart Phones)

To be competent, the user/individual on the job must be able to:

PC57. use the mobile phone in a secure way by locking/unlocking phone/apps using various options like face recognition, fingerprint etc.

PC58. use advanced camera features for business tasks, like scanning QR codes

PC59. crop photos, take screenshots, and share them as attachments

PC60. understand how to use features like conference calls, call recording, and call forwarding

PC61. access and manage documents stored in different folders in phone. E.g. File folder, download folder, etc.

PC62. manage phone memory and data storage

PC63. use other features of smartphone such as Airplane mode, Do Not Disturb, Bluetooth, other sharing services etc.

PC64. using voice assistant on Smartphones for tasks like setting reminders, asking questions, etc.

Advanced Digital Skills: Using advanced Internet and mobile applications (Apps)

To be competent, the user/individual on the job must be able to:

National Occupational Standards

- PC65.** connect to internet using Wi-Fi, Mobile Data
- PC66.** how to secure various apps installed on phone
- PC67.** using mobile applications to compress pictures and documents
- PC68.** access, store, and share documents using Google Drive from your phone
- PC69.** use apps for managing schedules and appointments
- PC70.** utilize Advanced Features of WhatsApp, Gmail, Google Maps, Pay TM, and other social media applications such as Facebook and YouTube
- PC71.** using Video conferencing features in different apps (Zoom etc.)
- PC72.** create and improve business profiles on relevant social media platforms to reach more customers using features of geo-tagging
- PC73.** interact with customers by responding to messages and comments promptly, and share business-related content effectively
- PC74.** using applications for customer service interaction (chat and voice calls)
- PC75.** usage of common applications like currency conversion, interest calculation etc.
- PC76.** 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)

Advanced Digital Skills: Privacy and security related to Internet and mobile phones

To be competent, the user/individual on the job must be able to:

- PC77.** identification of authentic calls and blocking SPAM calls
- PC78.** apply safe and ethical browsing practices (protecting identity) online privacy and the potential risks associated with social media use
- PC79.** understand how to safely store passwords and apply the same
- PC80.** identify common online harassment scenarios (e.g., hate speech etc., cyberbullying), prevention, consequences and ways to deal with them
- PC81.** understanding fake and real information, importance of verifying the content available on the net and also understanding the responsibility while sharing any content
- PC82.** learn to identify deep fake AI generated frauds and reporting to the concerned authorities

Advanced Financial Skills: Importance of Being Financial Literate

To be competent, the user/individual on the job must be able to:

- PC83.** explain advanced financial terms such as long and short-term assets, liabilities, investments, debit, credit, etc.
- PC84.** understand various types of business-related financial transactions and their uses in business scenarios
- PC85.** describe various types of payment methods such as cheques, UPI, RTGS etc.
- PC86.** use mobile applications and online platforms to track expenses and manage financial goals (mention some names)
- PC87.** know about various Government schemes such as Pradhan Mantri Jan Dhan Yojana, Jeevan Jyoti Bima Yojana, Suraksha Bima Yojana, Sukanya Samridhi Yojana, National Pension Scheme (NPS), Atal Pension Yojna (APY)

Advanced Financial Skills: Managing bank account

To be competent, the user/individual on the job must be able to:

National Occupational Standards

- PC88.** know various banking services offered by bank such as transfer-receipt of money, deposit-withdrawal etc.
- PC89.** operate ATM, Deposit Cash/ Cheque through machines or manually
- PC90.** visit branch to operate and manage bank accounts
- PC91.** use mobile and net banking to operate and manage bank accounts
- PC92.** follow safety measures while managing bank accounts

Advanced Financial Skills: Managing Loans

To be competent, the user/individual on the job must be able to:

- PC93.** know various types and features of secured and unsecured loans
- PC94.** identify appropriate type of loan as per need, purpose, and loan terms and conditions
- PC95.** select the loan repayment structure based on the interest rate and duration
- PC96.** legal process for resolution of delay/ default in payment of loan instalment

Advanced Financial Skills: Basic Understanding of taxes

To be competent, the user/individual on the job must be able to:

- PC97.** know various types of Taxes such as Income tax, Goods and Services Tax (GST), etc.
- PC98.** explain simple terms related to taxation such as taxable income, tax rates, Tax Deductible at Source (TDS), Value of Goods etc.
- PC99.** understand important concepts and applicability of income tax and GST
- PC100.** understand Basic guidelines for filing income tax and GST returns, including deadlines

Advanced Financial Skills: Using advanced features of Digital Payment Applications

To be competent, the user/individual on the job must be able to:

- PC101.** install and configure Digital Payment Applications
- PC102.** learn and practice advanced features of Digital Payment Applications such as wallets, bill payments, recharge etc.
- PC103.** perform transactions using Digital Payment Applications such as UPI, RTGS, NEFT, IMPS etc.

Advanced Financial Skills: Awareness and Prevention of Financial Frauds

To be competent, the user/individual on the job must be able to:

- PC104.** identify common online financial frauds and spams and associated potential risks
- PC105.** apply safe and ethical practices for securing online transactions

Advanced Marketing and Outreach Skills: Marketing and Customer Insights

To be competent, the user/individual on the job must be able to:

- PC106.** conduct marketing activities for artisan products
- PC107.** evaluate customer feedback to improve product offerings and marketing strategies

Advanced Marketing and Outreach Skills: Quality Assurance and Certification in Craftsmanship

To be competent, the user/individual on the job must be able to:

- PC108.** obtain relevant quality certifications such as e ISI mark, Agmark and Hallmark
- PC109.** manage product quality as per quality standards

Advanced Marketing and Outreach Skills: Brand Development and Promotion Strategies

To be competent, the user/individual on the job must be able to:

- PC110.** understand brand identity to enhance sales and promotion
- PC111.** promote products through social media and digital marketing

National Occupational Standards

PC112. leverage National Marketing Committee support in operations and logistics

Advanced Marketing and Outreach Skills: E-Commerce Management for Artisans

To be competent, the user/individual on the job must be able to:

PC113. onboarding e-commerce platform

PC114. understand process of cataloguing the products and services of Vishwakarma's

PC115. apply strategies for e-commerce linkage with GeM, Khadi India, MSME Mart

Advanced Marketing and Outreach Skills: Building Trade Network for Craft Business

To be competent, the user/individual on the job must be able to:

PC116. use digital marketing for wider reach and publicity of the Vishwakarma Scheme

PC117. identify and collaborate with relevant Industry Bodies

PC118. create links with suitable exporters and traders operating under the sector

Advanced Marketing and Outreach Skills: Trade Fairs and Exhibitions

To be competent, the user/individual on the job must be able to:

PC119. participate in trade fairs, exhibitions related to the products

PC120. set up collective display of PM Vishwakarma Products to associations of the artisan groups

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. efficient worksite organization principles and the importance of a well-organized workspace.

KU2. proper storage techniques for boat making tools and equipment, considering safety and accessibility.

KU3. the importance of tool maintenance and calibration for accurate and safe boat making work.

KU4. effective cleaning methods and the benefits of a clean worksite for boat making tasks.

KU5. proper debris removal procedures and waste disposal regulations in boat making.

KU6. different types of workbenches and their suitability for specific boat making tasks.

KU7. safety protocols and measures specific to advanced boat making tools and machinery.

KU8. characteristics and applications of various advanced boat making tools.

KU9. the components, functions, and safety features of a stationary combi planner.

KU10. the components, functions, and safety features of a mitre saw machine.

KU11. the operation and maintenance procedures for portable dust collectors.

KU12. the features, applications, and safety precautions associated with electric sanding machines.

KU13. the components, functions, and safety features of a pneumatic air band nailer.

KU14. the components, functions, and control of a compressor machine.

KU15. the blueprint symbols, scales, and conventions used in boat making drawings.

KU16. drawing techniques, scale, and accuracy requirements for boat making technical drawings.

KU17. orthographic projection principles and their application in boat making drawings.

KU18. how technical drawing skills can be applied to address challenges in boat making projects.

National Occupational Standards

- KU19.** the process and techniques for modifying technical drawings in response to project changes.
- KU20.** different wood species characteristics, strengths, and suitability for various woodworking projects.
- KU21.** advanced material layout techniques and cutting methods
- KU22.** advanced woodworking tools, their functions, and their applications in cutting, planing, and shaping wood.
- KU23.** modern strategies and technologies aimed at reducing material wastage in woodworking.
- KU24.** time management principles and techniques applicable to different stages of woodworking projects.
- KU25.** traditional and modern finishing techniques, including staining, varnishing, and advanced surface treatments.
- KU26.** advanced knowledge of boat construction techniques, materials, and adherence to industry standards.
- KU27.** rigging principles, sail dynamics, and fine-tuning techniques to optimize boat performance.
- KU28.** boat maintenance practices, inspection procedures, and repair techniques.
- KU29.** advanced materials suitable for boat construction, their properties, and applications in different parts of a boat.
- KU30.** restoration principles, craftsmanship techniques, and historical accuracy in restoring antique boats.
- KU31.** traditional preservation methods, their benefits, and applications in protecting wooden boats.
- KU32.** eco-friendly practices, sustainable materials, and their applications in boat maintenance.
- KU33.** various documentation methods, archival practices, and the importance of preserving records in boat restoration.
- KU34.** BIS standards related to the selection and usage of woodworking materials.
- KU35.** specific BIS codes applicable to wood, adhesives, finishes, and other relevant materials used in boat making.
- KU36.** importance of BIS quality control measures in process quality
- KU37.** BIS standards for boat making processes, including cutting, shaping, and finishing.
- KU38.** fundamental entrepreneurship principles and their application in the boat making context.
- KU39.** methods to recognize and assess potential business opportunities within the woodworking industry.
- KU40.** various stages of the entrepreneurship journey and the skills needed to navigate through them in the boat making business.
- KU41.** the components and importance of a comprehensive professional portfolio in boat making.
- KU42.** effective customer interaction and client servicing skills relevant to a woodworking business.
- KU43.** current design elements and trends in boat making, including their practical application.
- KU44.** sustainable materials and their compatibility with boat making projects.
- KU45.** market trends and customer preferences in boat making design and the ability to modify designs accordingly.
- KU46.** technology tools relevant to boat making design and their effective utilization.

National Occupational Standards

- KU47.** effective communication and presentation techniques for conveying boat making design concepts to clients and stakeholders.
- KU48.** financial planning principles, including budgeting, forecasting, and projection techniques.
- KU49.** funding and investment options available for boat making businesses, including their characteristics and considerations.
- KU50.** effective business proposal components, industry standards, and presentation techniques.
- KU51.** effective communication principles, including active listening, empathy, and relationship-building strategies.
- KU52.** effective presentation techniques, public speaking strategies, and elements of engaging communication.
- KU53.** key components of a compelling business pitch, target audience analysis, and persuasive communication strategies.
- KU54.** research methodologies, market analysis, and strategic planning for business expansion and collaboration.
- KU55.** effective networking strategies, relationship-building, and principles of partnership development in the business context.
- KU56.** strategic planning, financial analysis, and risk management for developing a comprehensive long-term growth plan for a business.
- KU57.** methods for securely locking and unlocking mobile phones and apps using face recognition, fingerprint scanning, and other security features
- KU58.** advanced camera functionalities, including QR code scanning, for business use
- KU59.** techniques for cropping photos, taking screenshots, and sharing them as attachments
- KU60.** functionalities and applications of conference calls, call recording, and call forwarding
- KU61.** methods for accessing and organizing documents stored in various phone folders such as File Folder, Download Folder, etc.
- KU62.** how to optimize and manage phone memory and data storage
- KU63.** the usage of smartphone features like Airplane mode, Do Not Disturb, Bluetooth, and other sharing services
- KU64.** the significance of effective utilization of voice assistants for tasks like setting reminders and asking questions
- KU65.** methods for connecting to the internet using Wi-Fi and mobile data
- KU66.** techniques for securing apps to protect sensitive information
- KU67.** applications and techniques for compressing images and documents
- KU68.** how to efficiently use Google Drive for accessing, storing, and sharing documents from a mobile phone
- KU69.** different applications for managing schedules and appointments effectively along with their usage
- KU70.** different advanced features of applications like WhatsApp, Gmail, Google Maps, PayTM, Facebook, and YouTube and their applications for business purposes
- KU71.** functionalities of video conferencing apps like Zoom for seamless virtual communication
- KU72.** strategies for creating and optimizing business profiles on social media platforms to enhance customer reach, including the use of geo-tagging
- KU73.** best practices for customer interaction, including prompt responses to messages and comments, and sharing business content

National Occupational Standards

- KU74.** how to skilfully use different applications for customer service interactions, including chat and voice calls
- KU75.** different applications available for tasks such as currency conversion and interest calculation and their significance
- KU76.** usage of trade-specific applications for measurement, calculation, obtaining construction materials, inventory management, and learning new techniques and best practices in their specific trade
- KU77.** methods for identifying authentic calls and blocking spam calls
- KU78.** safe and ethical browsing practices to protect online identity and privacy
- KU79.** application of techniques for the secure storage and management of passwords
- KU80.** common online harassment scenarios such as hate speech and cyberbullying, their prevention, consequences, and methods for dealing with them
- KU81.** the difference between fake and real information, the importance of verifying online content, and the responsibility involved in sharing any content
- KU82.** techniques for identifying deep fake AI-generated frauds and the process for reporting them to the relevant authorities
- KU83.** advanced financial terms such as long and short-term assets, liabilities, investments, debit, and credit
- KU84.** various types of business-related financial transactions and their uses in business scenarios
- KU85.** various types of payment methods such as cheques, UPI, and RTGS
- KU86.** how to use mobile applications and online platforms to track expenses and manage financial goals (e.g., Mint, YNAB, PocketGuard)
- KU87.** various Government schemes such as Pradhan Mantri Jan Dhan Yojana, Jeevan Jyoti Bima Yojana, Suraksha Bima Yojana, Sukanya Samridhi Yojana, National Pension Scheme (NPS), and Atal Pension Yojana (APY)
- KU88.** different banking services offered by banks such as transfer-receipt of money, deposit-withdrawal and their significance
- KU89.** the process of ATMs operationalization and cash/cheque deposit through machines or manually
- KU90.** procedures for visiting a bank branch to operate and manage bank accounts
- KU91.** the procedure to use mobile and net banking to operate and manage bank accounts
- KU92.** safety measures to follow while managing bank accounts
- KU93.** various types and features of secured and unsecured loans
- KU94.** criteria for identifying the appropriate type of loan based on need, purpose, and loan terms and conditions
- KU95.** methods for selecting the loan repayment structure based on the interest rate and duration
- KU96.** the legal process for resolution of delay/default in payment of loan instalments
- KU97.** various types of taxes such as Income tax and Goods and Services Tax (GST)
- KU98.** the basics of simple terms related to taxation such as taxable income, tax rates, Tax Deducted at Source (TDS), and Value of Goods
- KU99.** important concepts and applicability of income tax and GST
- KU100.** basic guidelines for filing income tax and GST returns, including deadlines
- KU101.** how to install and configure different digital payment applications

National Occupational Standards

- KU102.** advanced features of digital payment applications such as wallets, bill payments, and recharges
- KU103.** how to perform transactions using digital payment applications such as UPI, RTGS, NEFT, and IMPS
- KU104.** common online financial frauds and scams and the associated potential risks
- KU105.** safe and ethical practices for securing online transactions
- KU106.** methods for conducting marketing activities for artisan products
- KU107.** techniques for evaluating customer feedback to improve product offerings and marketing strategies
- KU108.** processes for obtaining relevant quality certifications such as ISI mark, Agmark, and Hallmark
- KU109.** the significance of management of product quality according to established quality standards
- KU110.** basic principles of brand identity to enhance sales and promotion
- KU111.** strategies for promoting products through social media and digital marketing
- KU112.** ways to leverage support from the National Marketing Committee in operations and logistics
- KU113.** procedures for onboarding to e-commerce platforms
- KU114.** processes for cataloguing products and services of Vishwakarma's
- KU115.** strategies for e-commerce linkage with GeM, Khadi India, and MSME Mart
- KU116.** methods for utilizing digital marketing to expand the reach and enhance the publicity of the Vishwakarma Scheme.
- KU117.** strategies for identifying and establishing collaborations with industry-relevant organizations.
- KU118.** techniques for establishing connections with suitable exporters and traders in the sector
- KU119.** methods for participating in trade fairs and exhibitions related to the products
- KU120.** steps involved in organizing collective displays of PM Vishwakarma products for associations of artisan groups

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** read company policy documents, information displayed at the worksite, job cards, etc.
- GS2.** effectively communicate with team members and supervisors respectfully as per the protocol of the organization
- GS3.** work constructively and collaboratively with others
- GS4.** apply domain information/ knowledge and assess day to day tasks through experience and observation
- GS5.** evaluate the complexity of the tasks to determine if any guidance is required from the supervisor
- GS6.** use reasoning skills to make appropriate decisions and troubleshoot concerns related to own responsibilities
- GS7.** plan and prioritize the tasks efficiently and accurately within the specified time frame

National Occupational Standards

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Advanced training on working with the listed modern tools and equipment for Boat Makers: Setting up and organizing the workplace</i>	4	10	-	5
PC1. organize and maintain the worksite effectively	-	-	-	-
PC2. perform the safe storage of tools and equipment	-	-	-	-
PC3. ensure proper maintenance and calibration of tools.	-	-	-	-
PC4. employ efficient methods in keeping a worksite clean	-	-	-	-
PC5. perform debris removal and dispose of waste appropriately after work completion	-	-	-	-
PC6. perform the selection and organization of the suitable workbenches for various boat making tasks	-	-	-	-
<i>Advanced training on working with the listed modern tools and equipment for Boat Makers: Advanced Tools for Boat Making</i>	4	20	-	-
PC7. employ safety measures for operating advanced tools and machinery	-	-	-	-
PC8. identify and select the right tools for specific tasks	-	-	-	-
PC9. demonstrate the process of operating and handling a stationary combi planner machine	-	-	-	-
PC10. demonstrate the process of operating and handling a mitre saw machine	-	-	-	-
PC11. operate and maintain a portable dust collector during machine usage	-	-	-	-
PC12. practice the usage of portable electric sanding machine for surface finishing	-	-	-	-
PC13. demonstrate the process of operating and handling a pneumatic air band nailer	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. operate the compressor machine efficiently based on process requirement	-	-	-	-
<i>Advanced training on working with the listed modern tools and equipment for Boat Makers: Technical Drawing</i>	4	15	-	-
PC15. read and accurately apply details from complex blueprints to boat making projects.	-	-	-	-
PC16. develop technical drawings for boat making projects with a focus on accuracy and adherence to standards.	-	-	-	-
PC17. produce orthographic projections based on technical drawings for boat making projects	-	-	-	-
PC18. apply technical drawing skills to solve practical boat making challenges.	-	-	-	-
PC19. perform drawings modification to meet evolving project requirements.	-	-	-	-
<i>Advanced training on working with the listed modern tools and equipment for Boat Makers: Efficient Woodworking and Advanced Techniques</i>	4	10	-	5
PC20. choose suitable wood species based on project requirements and characteristics.	-	-	-	-
PC21. demonstrate efficiency in employing advanced techniques for material layout and cutting.	-	-	-	-
PC22. utilize advanced tools for efficient cutting, planing, and shaping.	-	-	-	-
PC23. apply modern strategies to minimize material wastage.	-	-	-	-
PC24. manage time effectively during various woodworking processes.	-	-	-	-
PC25. apply traditional and modern finishing techniques with precision.	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Advanced training on working with the listed modern tools and equipment for Boat Makers: Advanced Wooden Boat Construction</i>	4	15	-	-
PC26. implement advanced techniques, ensuring structural integrity and standards.	-	-	-	-
PC27. perform Fine-tuning rigging for enhanced boat performance and efficiency.	-	-	-	-
PC28. perform comprehensive boat maintenance, including inspections and repairs.	-	-	-	-
PC29. incorporate advanced materials in boat construction.	-	-	-	-
PC30. restore antique boats with precision, considering authenticity and craftsmanship.	-	-	-	-
PC31. use traditional methods to preserve and protect wooden boats.	-	-	-	-
PC32. Implement eco-friendly practices in boat maintenance for sustainability	-	-	-	-
PC33. document restoration processes for future reference and historical records	-	-	-	-
<i>Entrepreneurship Skills and Design Innovations in Boat Making: BIS Standards in boat making</i>	5	10	-	-
PC34. implement and adhere to BIS standards for the selection and usage of woodworking materials.	-	-	-	-
PC35. comply with specific BIS codes for wood, adhesives, finishes, and other relevant materials.	-	-	-	-
PC36. adhere to BIS quality control measures for ensuring product quality.	-	-	-	-
PC37. implement BIS standards for various boat making processes, including cutting, shaping, and finishing.	-	-	-	-
<i>Entrepreneurship Skills and Design Innovations in Boat Making: Entrepreneurship Fundamentals</i>	5	10	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC38. display fundamental entrepreneurship principles relevant to boat making.	-	-	-	-
PC39. recognize and assess potential business opportunities within boat making.	-	-	-	-
PC40. display skills to identify and navigate through different stages of entrepreneurship journey in boat making business	-	-	-	-
PC41. develop a comprehensive professional portfolio showcasing boat making skills and projects.	-	-	-	-
PC42. execute effective customer interaction and client servicing skills in simulated scenarios.	-	-	-	-
<i>Entrepreneurship Skills and Design Innovations in Boat Making: Design, Innovation, and Materials</i>	5	15	-	-
PC43. research and practically apply current design elements and trends in boat making.	-	-	-	-
PC44. demonstrate the compatibility to integrate sustainable materials into boat making projects.	-	-	-	-
PC45. modify designs based on current market trends and customer preferences.	-	-	-	-
PC46. utilize technology tools to enhance boat making designs effectively.	-	-	-	-
PC47. communicate and present design concepts persuasively to clients and stakeholders.	-	-	-	-
<i>Entrepreneurship Skills and Design Innovations in Boat Making: Finance and Business Growth</i>	5	15	-	-
PC48. develop a comprehensive financial plan with accurate projections.	-	-	-	-
PC49. conduct in-depth research on funding and investment opportunities for boat making business growth.	-	-	-	-
PC50. create a business proposal exceeding industry standards in boat making.	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Entrepreneurship Skills and Design Innovations in Boat Making: Communication and Pitching</i>	5	10	-	-
PC51. showcase skills in client communication and relationship management.	-	-	-	-
PC52. display efficient presentation techniques and public speaking skills.	-	-	-	-
PC53. demonstrate skills to deliver compelling business pitches for diverse audiences.	-	-	-	-
<i>Entrepreneurship Skills and Design Innovations in Boat Making: Business Sustainability and Growth Strategies</i>	5	10	-	-
PC54. conduct thorough research on potential expansion opportunities and collaboration strategies.	-	-	-	-
PC55. actively engage in networking activities and establish beneficial partnerships.	-	-	-	-
PC56. develop an in-depth and dynamic long-term growth plan for boat making business.	-	-	-	-
<i>Advanced Digital Skills: Advanced features of using mobile phones (Smart Phones)</i>	10	10	-	-
PC57. use the mobile phone in a secure way by locking/unlocking phone/apps using various options like face recognition, fingerprint etc.	-	-	-	-
PC58. use advanced camera features for business tasks, like scanning QR codes	-	-	-	-
PC59. crop photos, take screenshots, and share them as attachments	-	-	-	-
PC60. understand how to use features like conference calls, call recording, and call forwarding	-	-	-	-
PC61. access and manage documents stored in different folders in phone. E.g. File folder, download folder, etc.	-	-	-	-
PC62. manage phone memory and data storage	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC63. use other features of smartphone such as Airplane mode, Do Not Disturb, Bluetooth, other sharing services etc.	-	-	-	-
PC64. using voice assistant on Smartphones for tasks like setting reminders, asking questions, etc.	-	-	-	-
<i>Advanced Digital Skills: Using advanced Internet and mobile applications (Apps)</i>	20	30	-	-
PC65. connect to internet using Wi-Fi, Mobile Data	-	-	-	-
PC66. how to secure various apps installed on phone	-	-	-	-
PC67. using mobile applications to compress pictures and documents	-	-	-	-
PC68. access, store, and share documents using Google Drive from your phone	-	-	-	-
PC69. use apps for managing schedules and appointments	-	-	-	-
PC70. utilize Advanced Features of WhatsApp, Gmail, Google Maps, Pay TM, and other social media applications such as Facebook and YouTube	-	-	-	-
PC71. using Video conferencing features in different apps (Zoom etc.)	-	-	-	-
PC72. create and improve business profiles on relevant social media platforms to reach more customers using features of geo-tagging	-	-	-	-
PC73. interact with customers by responding to messages and comments promptly, and share business-related content effectively	-	-	-	-
PC74. using applications for customer service interaction (chat and voice calls)	-	-	-	-
PC75. usage of common applications like currency conversion, interest calculation etc.	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC76. 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)	-	-	-	-
<i>Advanced Digital Skills: Privacy and security related to Internet and mobile phones</i>	15	15	-	-
PC77. identification of authentic calls and blocking SPAM calls	-	-	-	-
PC78. apply safe and ethical browsing practices (protecting identity) online privacy and the potential risks associated with social media use	-	-	-	-
PC79. understand how to safely store passwords and apply the same	-	-	-	-
PC80. identify common online harassment scenarios (e.g., hate speech etc., cyberbullying), prevention, consequences and ways to deal with them	-	-	-	-
PC81. understanding fake and real information, importance of verifying the content available on the net and also understanding the responsibility while sharing any content	-	-	-	-
PC82. learn to identify deep fake AI generated frauds and reporting to the concerned authorities	-	-	-	-
<i>Advanced Financial Skills: Importance of Being Financial Literate</i>	-	-	-	10
PC83. explain advanced financial terms such as long and short-term assets, liabilities, investments, debit, credit, etc.	-	-	-	-
PC84. understand various types of business-related financial transactions and their uses in business scenarios	-	-	-	-
PC85. describe various types of payment methods such as cheques, UPI, RTGS etc.	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC86. use mobile applications and online platforms to track expenses and manage financial goals (mention some names)	-	-	-	-
PC87. know about various Government schemes such as Pradhan Mantri Jan Dhan Yojana, Jeevan Jyoti Bima Yojana, Suraksha Bima Yojana, Sukanya Samridhi Yojana, National Pension Scheme (NPS), Atal Pension Yojna (APY)	-	-	-	-
<i>Advanced Financial Skills: Managing bank account</i>	-	-	-	10
PC88. know various banking services offered by bank such as transfer-receipt of money, deposit-withdrawal etc.	-	-	-	-
PC89. operate ATM, Deposit Cash/ Cheque through machines or manually	-	-	-	-
PC90. visit branch to operate and manage bank accounts	-	-	-	-
PC91. use mobile and net banking to operate and manage bank accounts	-	-	-	-
PC92. follow safety measures while managing bank accounts	-	-	-	-
<i>Advanced Financial Skills: Managing Loans</i>	-	-	-	10
PC93. know various types and features of secured and unsecured loans	-	-	-	-
PC94. identify appropriate type of loan as per need, purpose, and loan terms and conditions	-	-	-	-
PC95. select the loan repayment structure based on the interest rate and duration	-	-	-	-
PC96. legal process for resolution of delay/ default in payment of loan instalment	-	-	-	-
<i>Advanced Financial Skills: Basic Understanding of taxes</i>	-	-	-	10
PC97. know various types of Taxes such as Income tax, Goods and Services Tax (GST), etc.	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC98. explain simple terms related to taxation such as taxable income, tax rates, Tax Deductible at Source (TDS), Value of Goods etc.	-	-	-	-
PC99. understand important concepts and applicability of income tax and GST	-	-	-	-
PC100. understand Basic guidelines for filing income tax and GST returns, including deadlines	-	-	-	-
<i>Advanced Financial Skills: Using advanced features of Digital Payment Applications</i>	-	-	-	10
PC101. install and configure Digital Payment Applications	-	-	-	-
PC102. learn and practice advanced features of Digital Payment Applications such as wallets, bill payments, recharge etc.	-	-	-	-
PC103. perform transactions using Digital Payment Applications such as UPI, RTGS, NEFT, IMPS etc.	-	-	-	-
<i>Advanced Financial Skills: Awareness and Prevention of Financial Frauds</i>	-	-	-	10
PC104. identify common online financial frauds and spams and associated potential risks	-	-	-	-
PC105. apply safe and ethical practices for securing online transactions	-	-	-	-
<i>Advanced Marketing and Outreach Skills: Marketing and Customer Insights</i>	10	10	-	-
PC106. conduct marketing activities for artisan products	-	-	-	-
PC107. evaluate customer feedback to improve product offerings and marketing strategies	-	-	-	-
<i>Advanced Marketing and Outreach Skills: Quality Assurance and Certification in Craftsmanship</i>	10	10	-	-
PC108. obtain relevant quality certifications such as ISI mark, Agmark and Hallmark	-	-	-	-

National Occupational Standards

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC109. manage product quality as per quality standards	-	-	-	-
<i>Advanced Marketing and Outreach Skills: Brand Development and Promotion Strategies</i>	10	10	-	-
PC110. understand brand identity to enhance sales and promotion	-	-	-	-
PC111. promote products through social media and digital marketing	-	-	-	-
PC112. leverage National Marketing Committee support in operations and logistics	-	-	-	-
<i>Advanced Marketing and Outreach Skills: E-Commerce Management for Artisans</i>	10	10	-	-
PC113. onboarding e-commerce platform	-	-	-	-
PC114. understand process of cataloguing the products and services of Vishwakarma's	-	-	-	-
PC115. apply strategies for e-commerce linkage with GeM, Khadi India, MSME Mart	-	-	-	-
<i>Advanced Marketing and Outreach Skills: Building Trade Network for Craft Business</i>	5	5	-	-
PC116. use digital marketing for wider reach and publicity of the Vishwakarma Scheme	-	-	-	-
PC117. identify and collaborate with relevant Industry Bodies	-	-	-	-
PC118. create links with suitable exporters and traders operating under the sector	-	-	-	-
<i>Advanced Marketing and Outreach Skills: Trade Fairs and Exhibitions</i>	5	5	-	-
PC119. participate in trade fairs, exhibitions related to the products	-	-	-	-
PC120. set up collective display of PM Vishwakarma Products to associations of the artisan groups	-	-	-	-
NOS Total	145	245	-	70

National Occupational Standards

National Occupational Standards (NOS) Parameters

NOS Code	FFS/N2232
NOS Name	Boat Maker (Advance)
Sector	Furniture & Fittings
Sub-Sector	
Occupation	Furniture Installation and After Sales
NSQF Level	3
Credits	4
Minimum Educational Qualification & Experience	Basic Literacy and Numeracy (Certified Vishwakarma's who have completed basic training and repaid their 'Enterprise Development Loan' in a minimum of one year period, if applicable)
Version	1.0
Last Reviewed Date	15/03/2024
Next Review Date	15/03/2029
NSQF Clearance Date	15/03/2024
Reference code on NQR	NG-03-WC-02327-2024-V1-FFSC
NQR Version	1
CCN Category	1