

# Hand Block Printer

(QUALIFICATION PACK: REF. ID. HCS/Q7201)

SECTOR: HANDICRAFTS AND CARPETS SECTOR

Grades  
XI & XII



विद्यया ऽ मृतमश्नुते



एन सी ई आर टी  
NCERT

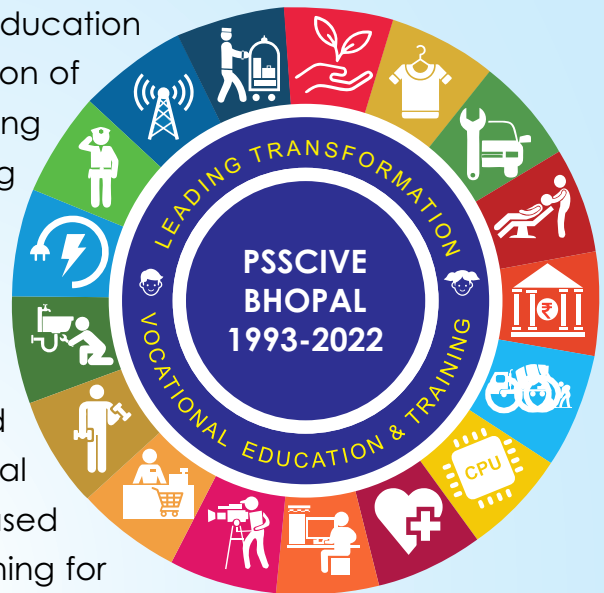
**PSS CENTRAL INSTITUTE OF VOCATIONAL EDUCATION**

(A constituent Unit of National Council of Educational Research and Training, under Ministry of Education, Government of India), Shyamla Hills, Bhopal – 462002 (M.P.)

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## VOCATIONAL EDUCATION

Vocational Education and Training (VET) in India is organised through the formal, informal and non-formal sector. VET delivery occurs in different forms, according to different target groups and the skill needs of the learners. Amongst the various Ministries, the Ministry of Skill Development and Entrepreneurship (MOSDE) and the Ministry of Education (MOE), Government of India are responsible for the majority of the skill development schemes and programmes. VET provisions made through the schools, colleges and universities come under the purview of the Department of School Education and Literacy and Department of Higher Education of the MoE. The vocational education and training provided through Polytechnics, Industrial Training Institutes, Jan Shikshan Sansthan, National Institute for Entrepreneurship and Small Business Development comes under MOSDE. Schools provide an environment to the learners for systematic acquisition of knowledge, skills and attitude required to meet the varied aspirational needs and educational goals. The school-based vocational education programmes provide training for entry-level qualifications in various occupations.



Vocationalisation of education, which refers to the inclusion of those practical subjects or courses, which shall generate among the students some basic knowledge, skills and disposition that prepare them to think of becoming skilled workers or entrepreneurs is being implemented under the Samagra Shiksha - an integrated scheme of school education. It is designed to provide diverse educational opportunities and career pathways and improve learning outcomes in occupational skills.

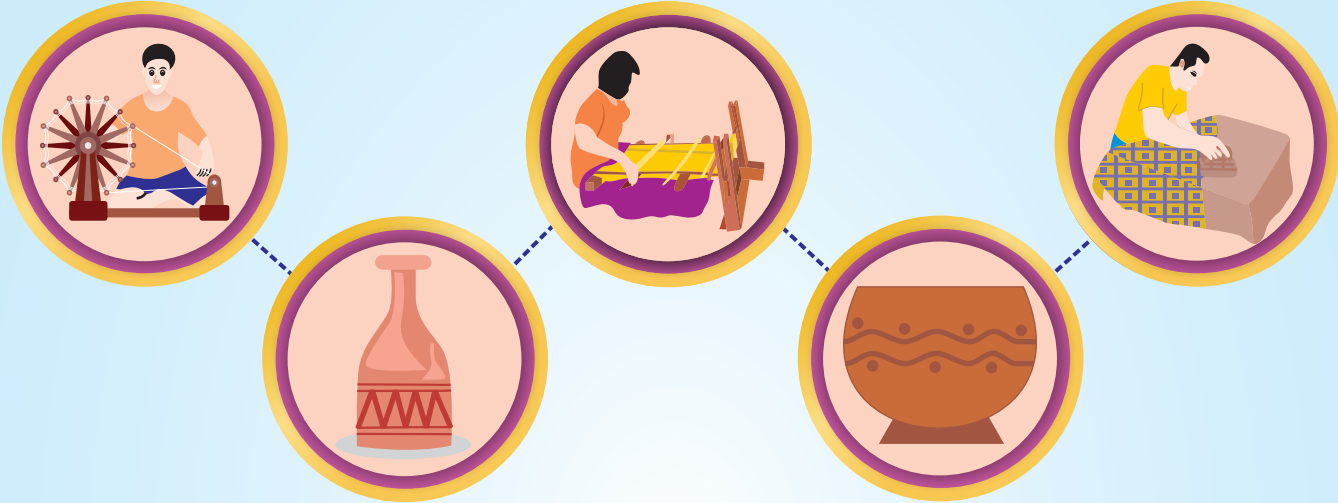
Vocational Education and Training (VET) system is recognised to prepare and develop skilled manpower to meet the growing demands of labour market. VET focuses on specific job roles and imparts practical knowledge and skills, which allow individuals to engage in specific occupational activities. It is not only vital for providing employment opportunities to individuals but also helps in enhancing productivity in industries.

The vocational subjects were introduced under the revised scheme of vocationalisation of secondary and higher secondary education in 2012, with one job roles across Grades 9 to 12 (4-year pattern). The scheme was subsumed in Samagra Shiksha in 2018, along with Sara Shiksha Abhiyan (SSA) and Rashtriya Madhyamik Shiksha Abhiyan (RMSA).

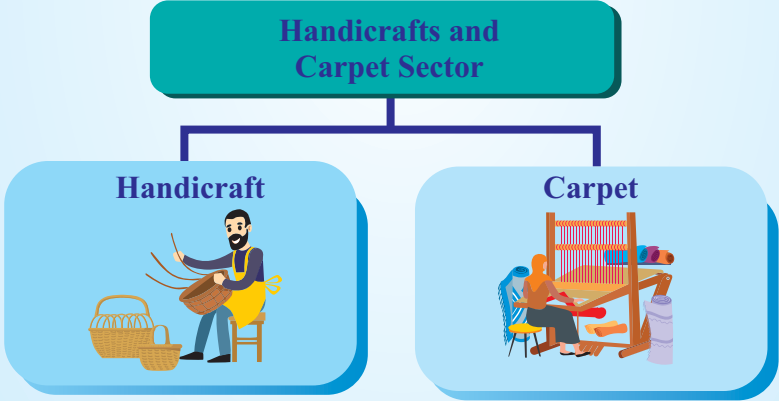
There has been increased emphasis on Vocational Education in the National Education Policy 2020 (NEP-2020). The NEP-2020 envisages re-imaging of Vocational Education to provide a due social status and for developing a system for integration of Vocational Education with General Education.

# ABOUT HANDICRAFTS AND CARPET SECTOR

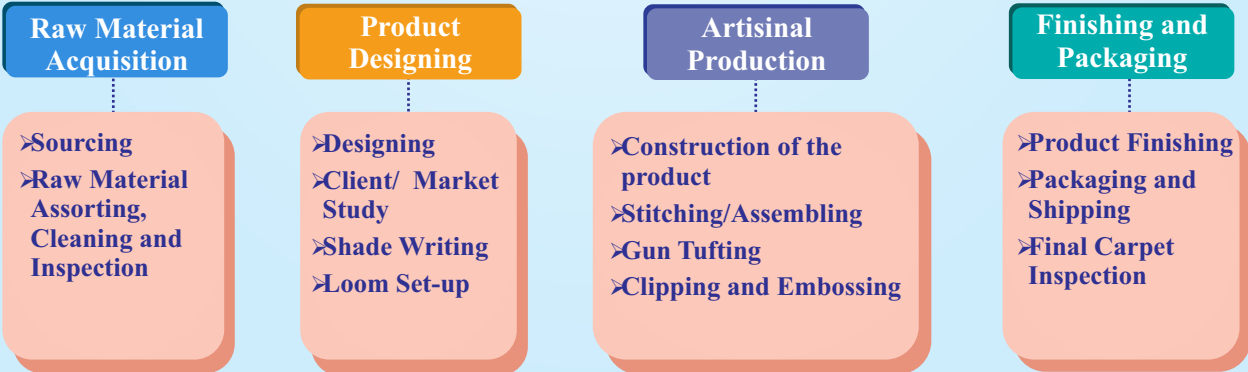
Handicrafts & Carpet sector represents the rich culture and heritage of our country. The skillful development of craft is a work of creativity and patience. The method of production in this sector is mostly traditional, which proves it to be a skill-intensive locale. Artisans working in this sector are based in clusters around the nation. The handicrafts hold a special place in the market because of its essence of development contributing a substantial percentage to the GDP. Moreover, handicrafts reflect enormous potential as millions of artisans are engaged in it, across the country. Their skills provide the means for supporting the growing number of new participants in the industry.



Handicrafts and Carpet sector broadly represents its two divisions-Handicrafts and Carpet



Artisans' inherent skill, technique, and traditional craftsmanship are the chief resource of the sector forming the primary platform for production. The planning of the production is generally followed in four phases under quality supervision:





## CONTRIBUTION OF HANDICRAFTS AND CARPET SECTOR IN ECONOMY

The Handicrafts and Carpet Sector has been described as an export-oriented sector with approximately 65% and 90% of handcrafted products and carpets respectively exported, earning a value of about Rs. 33253.00 Crores in the year 2021-22. Currently, handicraft sector is significantly moving towards the creation of jobs, with 7.3 million handicraft artisans and approximately 2 million carpet weavers already employed from rural and semi-urban areas.



This sector proves to be economically important from the business point of view. The low capital investment, high ratio of value addition, and high potential for export and foreign exchange earnings for the country, elaborates a bigger picture. Being spread all over the country in rural and urban areas, the industry is highly labor intensive and decentralized. The flexible nature of production allows people, including farmers and other members of the family to engage quickly and also provides opportunity for vertical and horizontal mobility in the sector. Making it prevalent to generations of skilled artisans and family-bound organizations, promoted by Self Help Group (SHGs).



## COMPONENTS OF HANDICRAFTS AND CARPET SECTOR

The Handicrafts & Carpet Sector is segmented into following sub-sectors:



This sector offers wide range of products. These items may or may not have functional utility, and are developed on traditional and contemporary themes. Handicrafts are the products developed by manual skills that possesses the creativity of the artisan, and represents cultural beliefs, social symbols and practices.

The sector marks the largest end-use segment denoted by the rising demand for fashion accessories, home accessories and jewellery, among other personal uses. The various sub-sectors of Handicrafts and Carpet Sector accumulates variety of job roles.



# JOB ROLES IN HANDCRAFTS AND CARPET SECTOR

## Carpets

CAD designer for carpets  
Carpet final inspector  
Capet Weaver  
Clipper and Embosser  
Designer and Shade Writer  
Dyer (Rangsaaz)  
Finisher & Latexing Man  
Loom Supervisor -  
Knotted Carpet  
Namda Craft Maker  
Quality Supervisor (Carpets)  
Shade Supervisor  
Tufted Weaving Supervisor  
Tufting Gun Master  
Washer (Carpets)

## Ceramics

Assistant Ceramics and  
Terracota Toy Maker  
Ceramics and Terracota Toy  
Maker  
Sketching and Painting  
Artisan (Ceramics)  
Ceramics Preparation Artisan  
Floor Supervisor (Ceramics)  
Lab Assistant (Ceramics)  
Material Preparation Worker  
Modeller (Ceramics)  
Quality Check Technician  
(Ceramics)

## Paper Mache

Polisher (Metalware)  
Lacquerer (Paper Mache)  
Paint Line Operator  
(Paper Mache)  
Paper Mache Art Designer  
Paper Mache Art Promoter  
Paper Mache Craft Specialist  
Paper Mache Art Products  
Artisan  
Sakhta Saaz Kharadi

## Leatherware

Lather Toy Maker - Artisan

## Handcrafted Textile

Applique Artisan  
Block Print Supervisor  
Hand Block Printer  
Jute Handloom Weaver  
Jute Products Artisan  
Jute Products Stitching  
Operator  
Jute Screen Printer  
Jute Yarn Hank Dyer  
Master Hand Embroiderer  
Traditional Hand Embroiderer

## Stone Craft

Seasoning and Chemical  
Treatment Assistant Woodware  
Assembly Machine Operator  
(Woodware)  
Designer (Woodware Products)  
Engraving/ Carving/ Etching  
Assistant  
Finisher (Woodware)  
Lacquerer (Woodware)  
Assistant Wooden Toy Maker  
Wooden Toy Maker Artisan

## Woodware

Seasoning and Chemical  
Treatment Assistant Woodware  
Assembly Machine Operator  
(Woodware)  
Designer (Woodware Products)  
Engraving/ Carving/ Etching  
Assistant  
Finisher (Woodware)  
Lacquerer (Woodware)  
Assistant Wooden Toy Maker  
Wooden Toy Maker Artisan

## Handcrafted Bamboo

Bamboo Work Artisan

## Handicrafts (Agarbatti)

Agarbatti Maker  
Automatic Stick Making  
M/C Operator

## Glassware

Abrasion & Grinding Machine  
Operator  
Decorative Cutter  
Decorative Painter (Glassware)  
Glass Blowing Operator  
Silver Coating Technician  
Glass Toy Maker - Artisan

## Handicraft Products

Natural Fiber Maker  
Puppet Maker - Artisan  
Traditional Painting Maker -  
Artisan  
Up-Cycling Scraps and  
E-Waste Artisan  
Kohlapur Chappal Maker  
Merchandiser

## Metalware

Engraving and Stamping  
Artisan  
Acid Cleaner  
Casting Operator (Metal  
Handicrafts)  
Cutting and Threading  
Operator  
Embossing Artisan (Metalware)  
Etching Artisan (Metalware)  
Inlay Artisan (Metalware)  
Painter (Metal Handicrafts)  
Planishing Artisan (Metalware)  
Polisher (Metalware)

## Fashion Jewellery

Product Maker (Fashion  
Jewellery)  
Stringing/ Beading Assembler  
(Fashion Jewellery)  
Quality Checker (Fashion  
Jewellery)

## Hand Crocheted Textiles

Crocheted Lace- Supervisor  
Crocheted Lace Tailor  
Hand Crocheted Lace Maker

Hand Block Printer is an important job role of this sector. The job role holder prints on fabric and other materials by stamping carved blocks by hand. The Hand Block Printer is required to have the skill to prepare the printing table and use different carved blocks to print in different colors and layouts as per given specifications.

## ROLES AND RESPONSIBILITIES

01

Identify design requirements and perform hand block printing as per the given specifications for hand block printed product

02

Prepare the fabric and the tools and equipments for performing block printing

03

Maintain the work area and tools, and comply with health, safety and security requirements at work

04

Evaluate and maintain quality in hand block printing and related operations

05

Demonstrate employability skills and teamwork during inter/intra departmental work or engagement

## Grade - 11

### Unit 1

#### Introduction to Hand Crafted Textiles Industry

The handicrafts industry is evolving and the demands are continuously increasing. Hence, the orientation to the industry and its structure becomes an essential knowledge to understand the demands and work on it. This unit also elaborates about the product range, market and consumers to the Hand Crafted Textiles Industry and opportunities in it. Further, the students will also learn about the roles and attributes of the Hand Block Printer with the related tools and its operations.



### Unit 2

#### Introduction to Hand Block Printing

The objective of this unit is to enable students to identify different techniques and types of hand block printing. Further, its properties are taught, to help analyze the requirements and specifications of the final product. Students will also be exposed to block preparation process involving designing, pattern-making and cutting, plan and structure.





### Unit 3

## Maintain work area, tools and machines in Handicraft Sector

In handicraft sector, majority of task are achieved by hand, including the set-up of printing operation. This unit introduces to the student it's operations, techniques and storage methods for appropriately handling production. This contributes to quality production, safety of the operator and timely accomplishment of task. Therefore, while handling tools and machines, students will be able to analyse the tools and equipments, with its operations and waste management to better understand the workflow standards.



### Unit 4

## Health, safety, and security at workplace in Handicraft Sector

In this unit, students will learn about the importance of health, safety and security, and its impact on production. Understanding potential hazards and methods to take emergency actions. This unit would enable them to explain about environmental management procedures, security details within a work force or unit.

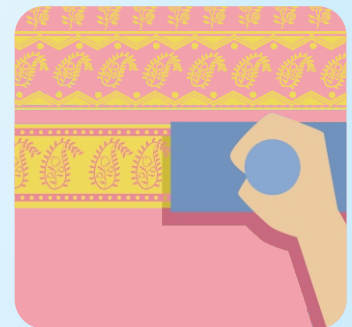


## Grade - 12

### UNIT 1

## To Perform Block Printing Process

The hand crafted textiles industry is a wide and complex industry in itself, accounting to the variety of products developed and various kinds of processes and market involved. This unit would enhance the students' knowledge about the understanding of specification sheets, and the related pre-printing, preparatory, and post-printing activities. The scope of the industry is further explained through material suitability, and its implications on different spec sheets and requirements. Further allowing them to gain knowledge about the scope of Jute industry.



### UNIT 2

## Quality Management in Hand Block Printing



This unit elaborates the importance of the quality check in the handcrafted textiles production, and enables the students to identify finishing standards of a product. Further, the unit discusses about the methods to carry out inspection at all the levels of the production from pre-printing, printing to post-printing as per the spec sheet or buyer's requirements. As it is important to achieve the final product as per the desired quality, its inspection and the reporting is inculcated in this unit.



### UNIT 3

## Working in a team in Handicrafts Sector

One should aim at building a working environment which provides and maintains the highest degree of physical, mental, and social well-being for workers in all occupations. Hence, the unit allows the students to understand the importance of commitment and trust while handling a job in a team. This unit helps in developing communication with a team, and gain creative understanding while acknowledging self-roles and responsibilities.



### UNIT 4

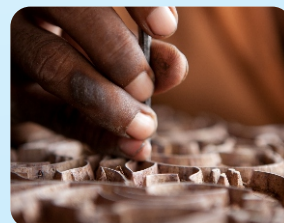
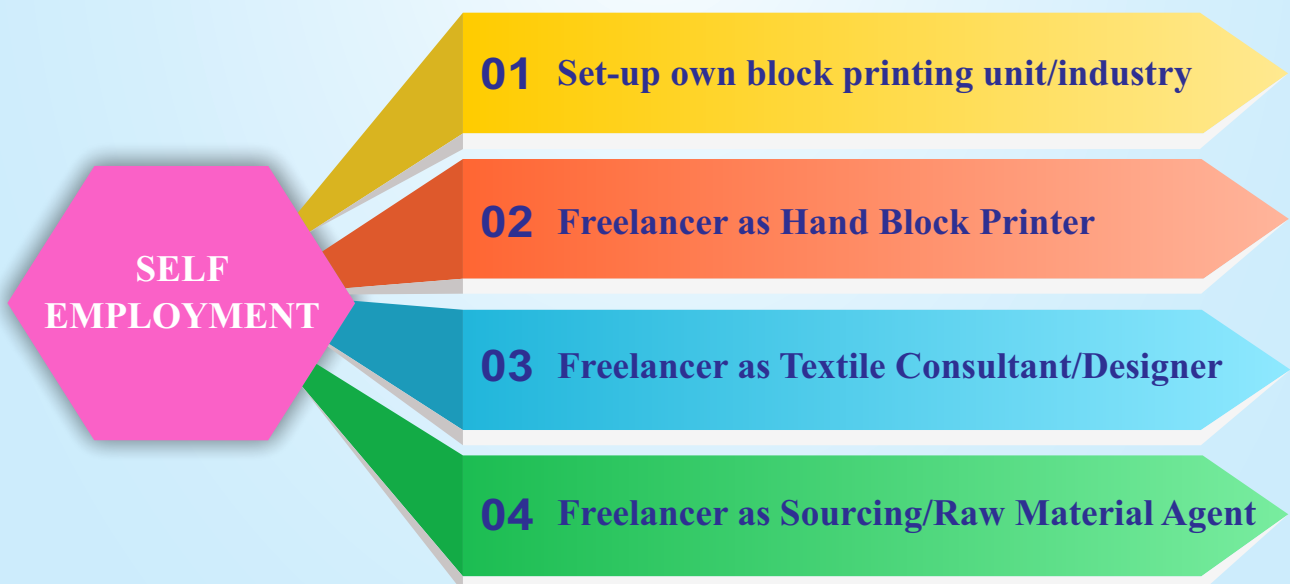
## Comply with work place requirements in Handicrafts Sector



The growth and worldwide recognition of the handicraft sector of India can be accounted to the considerable domestic and global demand. Hence, importance of the resultant of awareness and compliance to code of conduct policies among the Indian handicrafts units are elaborated to the students. Benefits of ethical and value-based approach to management, adherence to the company policies and management of work routines are incorporated into students for better performance.

## JOB OPPORTUNITIES

Accomplishment of the course may present following opportunities:



## WAGE EMPLOYMENT

01

Hand Block Print Supervisor in an Export/Domestic Textiles Industry/Unit

02

Textiles/Technical Consultant in an Export/Domestic Textiles Industry/Unit

03

Assistant Textile Designer in a Design House/Export/Domestic Textiles Industry/Unit



## GROWTH

The growth opportunities for the Hand Block Printer after completing the course could be both vertical and horizontal. The opportunities could also emerge multi functionally paving newer paths

HORIZONTAL  
GROWTH

Hand Block Print Raw Material Specialist

Sample Hand Block Printer



## VERTICAL GROWTH

- 01 Hand Block Print Supervisor
- 02 Print Department Head, Export/Design House
- 03 Export/Design House Director
- 04 Block Print Textiles Quality Checker/ Inspector
- 05 Sourcing Expert in a Design House/Export/Domestic Textiles Industry/Unit
- 06 Textiles/Technical Consultant in an Export/Domestic Textiles Industry/Unit
- 07 Assistant Textile Designer in a Design House/Export/Domestic Textiles Industry/Unit
- 08 Sourcing Expert in a Design House/Export/Domestic Textiles Industry/Unit

## ON THE JOB TRAINING

Since the intellectual development never stops and hence training and courses could be further used to grow intellectually.

**The courses are available at:**

- 01 Non Government Organisation (NGOs)
- 02 Government and Non-Government Skills Training Centers
- 03 Product/Design development departments in government and non-government industry of handicraft sector





## ABOUT THE PSSCIVE

### PSS Central Institute of Vocational Education, Bhopal

The Pandit Sundarlal Sharma Central Institute of Vocational Education (PSSCIVE) is an apex research and development organization in the field of vocational education. It is a constituent unit of the National Council of Educational Research and Training (NCERT), established in 1993 by the Ministry of Education [Formerly Ministry of Human Resource Development (MHRD)], Government of India. It is also a UNEVOC (International Project on Technical and Vocational Education) Network Centre in India. The Institute has a picturesque 35-acre campus with Departments created for different disciplines, viz. Agriculture & Animal Husbandry, Business & Commerce, Engineering & Technology, Health & Paramedical Sciences, Home Science & Hospitality Management and Humanities, Science, Education & Research.

The Institute offers quality-training programmes in vocational pedagogy and a wide array of disciplines for the key functionaries in vocational education and vocational teachers. The highly qualified team of the Institute possesses excellent professional skills and experience required to impart training for classroom teaching and training.

The Institute has traversed the path of rapid development in vocational education, responding positively to the changing needs of the industry and at times initiating significant changes in the field of vocational education. The evolution of the Institute in the last twenty-five years has witnessed various challenges, but these have served as opportunities to explore new horizons and work on possibilities of reorienting strategies for meeting the skill needs of the people at the local and global canvas.



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