

Syllabus For Garment Manufacturing

Course Name	GARMENT MANUFACTURING, V2
Sector	Apparel, Made-UPS & Home Furnishing
Course Code	STC-APL/NSQF-2022/0304, V2
Level	3
Occupation	Garment maker/dress maker has a wide scope of employment ranging from self-employment, contractual employment to commercial manufacturing industry of garments/apparel sector. On successful completion of this course, the candidates shall be gainfully employed in the industry for following occupations: - Garment maker -Dress maker -Entrepreneur
Job Description	Garment maker makes clothing according to the need and request of their customers. Works on tailored or shaped garments such as trousers, shirts, dress for kids, men and women. Many have their own setup. A few work from their home. Helps their customers to choose the kind of color and fabric they want to use for styling of the garment to be made. Take a customer's measurements and note any special figure consideration. After gaining few year experience, A Garment manufacturer may work as a sample co-coordinator, line in charge, supervisor, and designer or merchandiser.
Course Duration	Total Duration 390 Hrs (T-90, P-180, OJT-60 and ES-60)
Trainees' Entry Qualification	Grade 10 OR Grade 8 with two year of (NTC/ NAC) after 8 th OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 8th grade pass with 2 yrs relevant experience OR Previous relevant Qualification of NSQF Level 2 with one yr experience OR Previous relevant Qualification of NSQF Level 2.5 with 6 months experience
Trainers Qualification	CTS/ATS in Dress making / Sewing technology trade OR Diploma in Fashion /Apparel field OR B.Tech/B.E. in Textile/ Apparel/ Fashion technology or Graduate with certificate course on fashion technology

Structure of Course:

Module No.	Module name	Outcome	Theory (Hrs)	Practical (Hrs)	Total (Hrs) [Multiple of 30]
1	Apply Safe Working Practices	Apply Safe Working Practices	10	20	30
2	Select and ascertain measuring instrument and measure dimension of components and record.	Select and ascertain measuring instrument and measure dimension of components and record.	10	20	30
3	Explain the concept and preparation of drafting and pattern making.	Explain the concept and preparation of drafting and pattern making.	20	40	60
304	Identify different cutting tools and apply them for cutting the clothes as per pattern.	Identify different cutting tools and apply them for cutting the clothes as per pattern.	10	20	30
5.	Explain the basic stitching skills and making samples using all constructional skills on sewing machine	Explain the basic stitching skills and making samples using all constructional skills on sewing machine	20	40	60
6.	Demonstrate pressing and finishing of garments products.	Demonstrate pressing and finishing of garments products.	10	20	30
7	Estimate the cost of raw materials to manufacture bulk quantities of garment using a particular design to meet a particular design.	Estimate the cost of raw materials to manufacture bulk quantities of garment using a particular design to meet a particular design.	10	20	30
8	OJT	Work in real job situation with special emphasis on basic safety and hazards in this domain.	0	60	60
9	Employability Skill-60 Hrs	Employability Skill-60 Hrs	60	0	60
Total			150	240	390

SYLLABUS:

Module No. 1: Apply Safe Working Practices**APL/0304/OC1****Outcome**

- Maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements according to site policy.
- Recognize any unsafe situations according to site policy, and assess his report accordingly.
- Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
- Demonstrate Personal Productive Equipment (PPE) like: safety helmet, safety glove, safety shoe and use the same as per related working environment.
- Demonstrate basic first aid & CPR and use them under different circumstances.
- Identify different fire extinguishers and use the same as per requirement in a mock drill.

Theory Content:

- Maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements according to site policy.
- Recognize any unsafe situations according to site policy, and assess his report accordingly.
- Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.
- Describe various employment opportunities for the job holder in the apparel industry

Practical Content:

- Recognize any unsafe situations according to site policy, and assess his report accordingly.
- Demonstrate Personal Protective Equipment (PPE) like: safety helmet, safety glove, and safety shoe, use the same as per related working environment.
- Demonstrate basic first aid & CPR and use them under different circumstances.
Identify different fire extinguishers and use the same as per requirement in a mock drill.

Tools & Equipment needed :

First Aid box, Different types of fire extinguishers, PPE kits, Safety charts

Module No. 2: *Select and ascertain measuring instrument and measure dimension of components and record.***APL/0304/OC2****Outcome**

- Identify different measuring tapes.
- Measure the dimensions as per drawings
- Measure the different body length of different model
- Use the instruments for fitting to specification.
- Convert the units as per requirements.
- Record the data for future applications

Theory Content:

- Types of measuring tapes used for measuring fabric length.
- How to read a sewing measuring tape. Conversion of unit.
- Conversion of units from one measurement to another unit of measurement.
- Body measurement importance. Types and measuring technique. Precautions. Measuring

charts. Procedure measurements of different body length from the model. Introduction to dummy, such as princess line High Point of Shoulder, Neck line, etc.

- Describe customer requirements for stitching quality and product design.

Practical Content:

- Types of measuring tapes used for measuring fabric length. How to read a sewing measuring tape. Demonstrate the measurement of tape in a fabric with correct reading. Read a tape in millimeters.
- Demonstrate the sewing tape measure in inches. Conversion of unit while measuring.
- Practice in using tape. Taking measurement. Sequencing of Measurement. Use of L scale. Procedure measurements of different body length from the model. Introduction to dummy, such as princess line High Point of Shoulder, Neck line, etc.

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric.

Module No. 3: *Explain the concept and preparation of drafting and pattern making.*

APL/0304/OC3

Outcome

- Read & interpret the information on drawings and apply in executing practical work.
- Making draft of ladies bodice block.
- Making draft of sleeve block.
- Making draft of skirt block.

Theory Content:

- Drafting and Paper Patterns: Types, Importance, Pattern drafting, Drafting pattern, terminology. Principles of pattern drafting.
- Drafting and patterns making in cloth with the scissor.
- Procedure of cutting the cloth of definite measurement. Uses of different types of scissors for cutting cloth.

Practical Content:

- Simple drafting. Pattern making. Paper pattern cutting.
- Sketching of Following:
Neckline, Collars, Sleeves, Cascade, Pockets, and Flat Sketching of one piece dresses. Flat Sketching of women's Indian wear.
- Making draft of ladies bodice block.
- Making draft of sleeve block.
- Making draft of skirt block.

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric, Sewing thread, Motor driven industrial Single Needle Lock stitch machine, Hand driven Lock stitch machine, Motor driven/Hand driven over lock machine(3thread or4thread), Buttonholing machine, Button sewing machine

Module No. 4: *Identify different cutting tools and apply them for cutting the clothes as per pattern.*

APL/0304/OC4

Outcome

- Identify different cutting tools for the trade
- Select the appropriate pattern to be used
- Cut the cloth as per the actual measurement of pattern
- Compare the accuracy.

Theory Content:

- Cutting tools, Techniques & Technical Terms. Pressing tools, Techniques & Technical terms. Marking tools, techniques & Technical terms.
- Finishing tools, techniques & technical terms. Sewing tools, techniques & technical terms.

Practical Content:

- Identify different cutting tools for the trade
- Select the appropriate pattern to be used
- Cut the cloth as per the actual measurement of pattern.
- Preparation of sample pieces by cutting. Designing, cutting of simple ladies dresses, man's shirt, trousers, kids' dresses.

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric, Sewing thread, Motor driven industrial Single Needle Lock stitch machine, Hand driven Lockstitch machine, Motor driven/Hand driven overlock machine (3thread or 4thread), Buttonholing machine, Button sewing machine

Module No. 5: Explain the basic stitching skills and making samples using all constructional Skills on sewing machine

APL/0304/OC5

Outcome

- Identify the different parts of sewing machine.
- Identify the operations of various parts
- Dismantle and assemble the sewing parts of the machine
- Adjust the different parts for various operation
- Practice of oiling and cleaning of the machine

Theory Content:

- Machine Operation
- Different parts of machine and their functions.
- Proper maintenance and oiling
- Safety precautions.
- Basic stitching procedure. Uses of sewing machine for stitching. Procedure of cutting the cloth for stitching.
- Procedure for stitching of fork, blouse, skirts, men shirts and trousers. Ladies salwar suits, kid dresses etc. Knowledge about cutting and stitching the pockets, collars, buttons hole, hooks and eye and stitch buttons.
- Describe various types of basic embroidery stitches.
- Describe the cleaning process and cleaning of oil, dirt from the machine.
- Explain the procedure of fault finding
- Explain the importance of complying with health, safety gender and PWD related instructions applicable to workplace

Practical Content:

- Familiarization of sewing machine. Selection of appropriate needle and thread. Selection of right type of machine for a particular fabric & particular construction.
- Maintenance of sewing machine.
- Preparation of sample pieces by stitches. Stitching of different dresses by appropriate

procedure. Combination of colour of dresses.

- Procedure for stitching of fork, blouse, skirts, men shirts and trousers. Ladies salwar suits, kid dresses etc.
- Practice on cutting and stitching the pockets, collars, button hole, hooks and eye and stitch buttons.
- Maintain time management to dispatch unwanted items.
- Interpret a line of communication with appropriate procedure authority.
- Identify cleaning materials and carry out cleaning as per the schedule.
- Identify the fault of the equipment and repair with correct method.
- Discuss importance of training sensitization programme for gender and PWD awareness organized workplace.

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric, Sewing thread, Motor driven industrial Single Needle Lock stitch machine, Hand driven Lockstitch machine, Motor driven/Hand driven overlock machine(3thread or4thread), Buttonholing machine, Button sewing machine

Module No. 6: *Demonstrate pressing and finishing of garments products*

APL/0304/OC6

Outcome

- Identify the different methods of pressing the cloth as per fiber
- Apply proper fold for the dresses
- Demonstrate proper method of packing the finished product

Theory Content:

- Correct Method of pressing different garments according to fabric and folding of Garments. Precautions while pressing & finishing
- Principals of fitting .Common fitting problem & how to remedy them
- Classification of stains .Means of stains removing & stain removing equipment

Practical Content:

- Pressing of: - Cotton garments, Terylene garments, Silk garments, packing of various garments (folding).
Tailor marks
- - Fittings & alterations
- - New garments from old-fabric / garments
- Method of removing different kind of stains in fabric. Checking of garments in respect of-
- Measurements, Stitching, Stains, Defects, Pattern alteration

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric, Sewing thread, Motor driven industrial Single Needle Lock stitch machine, Hand driven Lockstitch machine, Motor driven/Hand driven overlock machine(3thread or4thread), Buttonholing machine, and Button sewing machine. Electric iron automatic. Steam iron.

Module No. 7: Estimate the cost of raw materials to manufacture bulk quantities of garment using a particular design to meet a particular design.

APL/0304/OC7

Outcome

- Identify the raw material required for finished product
- List out the cost for each dress
- Finalized the cost for bulk product.

Theory Content:

- Procedure for delivery of finished products.
- Find the cost of raw materials
- Estimate the cost for delivery bulk materials.

Practical Content:

- Identify the raw material required for finished product
- Procedure for delivery of finished products.
- Find the cost of raw materials and estimate the cost for delivery bulk materials.

Tools & Equipment needed:

Measuring Tapes, Scissors for Fabric Cutting, Scissors for Paper cutting, Tracing paper, brown papers Cotton or Poly/Cotton fabric, Sewing thread, Motor driven industrial Single Needle Lock stitch machine, Hand driven Lockstitch machine, Motor driven/Hand driven over lock machine (3thread or4thread), Button holing machine, Button sewing machine, Electric iron automatic. Steam iron.

Module No. 8: OJT

APL/0304/OC8

Outcome

Assessor will check report prepared for this component of training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 60 Hours.)

Theory Content:

Practical Content:

Assessor will check report prepared for this component of training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 60 Hours.)

Module No. 9: Employability skills

DGT/VSQ/N0102,v1.0

Outcome

1. Demonstrate a comprehensive knowledge of constitutional values and apply them in their actions, decisions, and interactions, thereby upholding the principles of the constitution.
2. Develop proficiency in basic English skills, including reading, writing, listening, and speaking, enabling effective communication in everyday situations.
3. Exhibit proficiency in basic communication skills, including active listening, effective verbal and nonverbal communication, and clarity in expressing ideas, fostering successful interpersonal interactions.
4. Explain financial and legal literacy, including understanding key financial concepts, making informed financial decisions, and navigating legal frameworks related to personal and

business finances.

5. Interpret digital tools and technologies, navigating online platforms, and practicing safe and responsible digital behavior.

Theory Content:

- Discuss the importance of Employability Skills in meeting the job requirements. Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. Discuss 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 for continuous learning etc. in personal and professional life.
- Use basic English for everyday conversation in different contexts, in person and over the telephone. Read and understand routine information, notes, instructions, mails, letters etc. written in English. Write short messages, notes, letters, e-mails etc. in English.
- Demonstrate how to communicate in a well -mannered way with others. Apply verbal and non-verbal communication etiquette and active listening techniques in various settings. Demonstrate working with others in a team
- Show how to conduct oneself appropriately with all genders and PwD.
- Select financial institutions, products and services as per requirement. Carry out offline and online financial transactions, safely and securely. identify common components of salary and compute income, expenses, taxes, investments etc.
- Show how to operate digital devices and use the associated applications and features, safely and securely. Use e-mail and social media platforms and virtual collaboration tools to work effectively. Use the features of word processor, spreadsheets and presentations. Create a biodata.
- Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research. Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity
- Identify different types of customers. Identify and respond to customer requests and needs in a professional manner

Learning Outcome – Assessment Criteria

Module No.	Outcome	Assessment Criteria
1	Apply Safe Working Practices	<p>After completion of this module students will be able to:</p> <p>(1.1) Maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements according to site policy.</p> <p>(1.2) Recognize any unsafe situations according to site policy, and assess his report accordingly.</p> <p>(1.3) Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures.</p> <p>(1.4) Demonstrate Personal Productive Equipment (PPE) like: safety helmet, safety glove, safety shoe and use the same as per related working environment.</p>

Module No.	Outcome	Assessment Criteria
		(1.5) Demonstrate basic first aid & CPR and use them under different circumstances. (1.6) Identify different fire extinguishers and use the same as per requirement in a mock drill.
2	Select and ascertain measuring instrument and measure dimension of components and record.	After completion of this module students will be able to: (2.1) Identify different measuring tapes. (2.2) Measure the dimensions as per drawings (2.3) Measure the different body length of different model (2.4) Use the instruments for fitting to specification. (2.5) Convert the units as per requirements. (2.6) Record the data for future applications
3	Explain the concept and preparation of drafting and pattern making.	After completion of this module students will be able to: (3.1) Read & interpret the information on drawings and apply in executing practical work. (3.2) Making draft of ladies bodice block. (3.3) Making draft of sleeve block. (3.4) Making draft of skirt block.
4	Identify different cutting tools and apply them for cutting the clothes as per pattern.	After completion of this module students will be able to: (4.1) Identify different cutting tools for the trade (4.2) Select the appropriate pattern to be used (4.3) Cut the cloth as per the actual measurement of pattern (4.4) Compare the accuracy.
5	Explain the basic stitching skills and making samples using all constructional skills on sewing machine	After completion of this module students will be able to: (5.1) Identify the different parts of sewing machine. (5.2) Identify the operations of various parts (5.3) Dismantle and assemble the sewing parts of the machine (5.4) Adjust the different parts for various operation (5.5) Practice of oiling and cleaning of the machine
6	Demonstrate pressing and finishing of garments products.	After completion of this module students will be able to: (6.1) Identify the different methods of pressing the cloth as per fibre (6.2) Apply proper fold for the dresses (6.3) Demonstrate proper method of packing the finished product
7	Estimate the cost of raw materials to manufacture bulk quantities of garment using a particular design to meet a	After completion of this module students will be able to: (7.1) Identify the raw material required for finished product

Module No.	Outcome	Assessment Criteria
	particular design.	(7.2) List out the cost for each dress (7.3) Finalized the cost for bulk product.
8	Work in real job situation with special emphasis on basic safety and hazards in this domain.	After completion of this module students will be able to: (8.1) Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain.
9	Employability Skills- 60 hrs.	(9.1) As per NCVET guided curriculum

List of Tools, Equipment & materials needed for 30 Trainees (Practical)

SI no	Name of the item	Quantity
1	Measuring Tapes	As required
2	Scissors for Fabric Cutting	10 nos
3	Scissors for Paper cutting	5 nos
5	Tracing paper, brown papers	As required
5	Cotton or Poly/Cotton fabric	As required
6	Sewing thread	As required
7	Motor driven industrial Single Needle Lock stitch machine	5 nos
8	Hand driven Lockstitch machine	5 nos
9	Motor driven/Hand driven overlock machine(3thread or4thread)	2 nos
10	Button holing machine	2 nos
11	Button sewing machine	2 nos
12	Iron (Electric automatic and steam)	1 no each

Marks Distribution

Outcome	Outcome Code	Total marks Th	Total marks Pr
Apply Safe Working Practices	APL/0304/OC1	20	70
Select and ascertain measuring instrument and measure dimension of components and record.	APL/0304/OC2	20	70
Explain the concept and preparation of drafting and pattern making.	APL/0304/OC3	30	150
Identify different cutting tools and apply them for cutting the clothes as per pattern.	APL/0304/OC4	20	70
Explain the basic stitching skills and making samples using all constructional skills on sewing machine	APL/0304/OC5	30	150
Demonstrate pressing and finishing of garments products.	APL/0304/OC6	20	70
Estimate the cost of raw materials to manufacture bulk quantities of garment using a particular design to meet a particular design.	APL/0304/OC7	10	70
Work in real job situation with special emphasis on basic safety and hazards in this domain.	APL/0304/OC8	0	150
Employability Skill-60 Hrs	DGT/VSQ/N010 2	50	0