It’s Objective, learning outcomes, Modules, assessments and material list

**NAME OF THE COURSE: SEWING MACHINE OPRATOR**

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| Submitted to: **-**  **Bihar Skill Development Mission, Labor Resources Department, GoB** | Submitted By: **- GOGREEN APPAREL LIMITED** |
| Session: |

Course name:

* Course Id: GAL/Q2401
* Candidate Eligibility: 8th PASS
* Course Duration (In hours): 336

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

**Name and address of submitting body: GOGREEN APPAREL LIMITED, BELA PHASE-2, MUZAFFARPUR, BIHAR**

**Technopak Advisors Private Limited**

**Name and contact details of individual dealing with the submission**

**Name :** Mr. HEMANT KUMAR

**Position in the organization** : PROJECT COODINATOR

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**List of documents submitted in support of the Qualifications File**

1. Curriculum Document

**SUMMARY**

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| **Qualification Title** | **SEWING MACHINE OPRATOR** |
| **Qualification Code** | **Customized** |
| **Nature and purpose of the qualification** | **Nature: - 60 Working days Certificate Course in Sewing machine operator**  **Purpose**   * Carryout Stitching activities using machine or by hand * Contribute to achieve product quality in stitching operations * Maintain work-area, tools and machine * Maintain health safety and security at workplace   Comply with the industry, regulatory and organizational requirements  . |
| **Body/bodies which will award the qualification** | **SEWING MACHINE OPRATOR - Customized** |
| **Occupation(s) to which the qualification gives access** | **GARMENTS PRODUCTION** |
| **Entry requirements and / or recommendations** | **8TH Pass** |

1. **OBJECTIVE OF THE COURSE: -**

Carryout Stitching activities using machine or by hand, contribute to achieve product quality in stitching operations, Maintain work-area, tools and machine, Maintain health safety and security at workplace, Comply with the industry, regulatory and organizational requirements

**LEARNING OUTCOMES: -**

* Carryout work functions in accordance with legislation and regulations, organizational guidelines and procedures
* Seek and obtain clarifications on policies and procedures, from your supervisor or other authorized personnel
* Apply and follow these policies and procedures within your work practices
* Provide support to your supervisor and team members in enforcing these considerations

Identify and report any possible deviation to these requirements

* Work effectively within a team.
* Manage job related stress effectively.
* Understand the importance of punctuality.
* Understand Importance of health and hygiene.

1. **MODULE- 60 Working DAYS (Sewing Machine Operator)**

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| **DURATION: - 60 Working DAYS**  **TRANING PROGRAM IN Sewing Machine Operator** | |
| **MODULE CODE & NAMES** |  |
| **1** | **Code: - Customized**  **Module: -** Introduction and Orientation |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This Course covers the skills and knowledge for an individual to made garments to ready to shipment. |
| **MODULE COMPETENCE** | This unit applies to individuals who made the garments.   * Sewing as a profession * Select the correct component parts for the style being worked on * Check needles, awls and threads regularly   The role may be performed in a range of Garments Made   * Garment Factory |
| **2** | **Code: - Customized**  **Module: -** **Abilities developed** |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge for an individual to plan and prepare visual merchandising displays. |
| **MODULE COMPETENCE** | This unit applies to individuals to plan and prepare visual merchandising displays in Sewing machine Operator.   * Sewing in a straight line at maximum speed. * Pedal control. * Cutting, Disposing and Stacking.   The role may be performed in a range of Sewing Operator   * Garment Factory |
| **3** | **Code: - Sewing Machine Operator**  **Module: -** To dress visual merchandising displays |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge to dress visual timekeeper, fold fabric lightly operations etc. |
| **MODULE COMPETENCE** | This unit applies to individuals to dress visual timekeeper, fold fabric lightly operations etc.   * + - The timekeeper starts the chronometer.     - Take fabric with LH.     - Fold fabric lightly on one side.     - Move towards machine foot.   The role may be performed in a range of Sewing Operator   * Garments Factory |
| **4** | **Code: - Sewing Machine Operator**  **Module: -** The timekeeper and chronometer |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge for the timekeeper and chronometer |
| **MODULE COMPETENCE** | This unit applies to individual’s timekeeper and chronometer   * + - Take fabric with LH.   Fold fabric lightly on one side  The role may be performed in a range of Sewing Operator   * Garments Factory |
| **5** | **Code: - Sewing Machine Operator**  **Module: -** To Garments Margine |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge for an individual to Garments Margine. |
| **MODULE COMPETENCE** | This unit applies to individuals to Garments Margine   * Sew fabric with rhythm guiding it with the RH while the LH takes another fabric   The role may be performed for Garments Margine   * Garments Factory |
| **6** | **Code :- Sewing Machine Operator**  **Module :-** To Security, Quality |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge for an individual Security, Quality. |
| **MODULE COMPETENCE** | This unit applies to individuals to Security, Quality.   * The participant must be careful not to prick himself with the needle. * Use safety glasses. * Avoid using loose clothing and or long and loose hair   The role may be performed in a range of Sewing Operator   * Garments Factory |
| **7** | **Code: - Sewing Machine Operator**  **Module: -** To maintain health and safety |
| **RATIONALE & OBJECTIVE OF THE MODULES** | This NOS covers the skills and knowledge for an individual to maintain health and safety. |
| **MODULE COMPETENCE** | This unit applies to individuals to maintain health and safety in Sewing Operator.   * Identify and report accidents and emergencies * Protect health and safety as you work * Lift and handle goods safely   The role may be performed in a range of Sewing Operator   * Garments Factory. |

| **Sr. No.** | **Module** | **Key Learning Outcomes** | **Equipment Required** |
| --- | --- | --- | --- |
| 1 | **Introduction and Orientation**  **Theory Duration**  (hh:mm) 05:00  **Practical Duration**  (hh:mm) 15:00  **Corresponding NOS Code**  **Customized** | * Sewing as a profession * Apparel Sector In India * Roles and Responsibilities of a Sewing Machine Operator | Computer, Computer Peripherals (optional),white/black board, white board marker, chalk |
| 2 | **Carry out stitching activities using machine or by hand**    **Theory Duration**  (hh:mm)  06:00  **Practical Duration**  (hh:mm)  15:00  **Corresponding NOS**  **Code**  **Customized** | **Prepare for stitching operations**   * Keep the work area free from hazards * Follow the instructions as written on the work ticket/ job card in line with the responsibilities of respective job role and * Seek information on the tasks which are not clear simultaneously reviewing instructions with supervisor. * Check that equipment is safe and set up in readiness for use * Select the correct component parts for the style being worked on * check that the materials to be used are free from faults * Ensure the materials used meet the specification matching Within a product and between a pair of products where applicable * Carry out test sews * Check needles, awls and threads regularly * check that the fabric and the component is correctly marked, and the pieces are cut as per the requirement. * ensure the fabric pieces and linings are pinned or sewn together as required, and appropriately hung in readiness for assembly. * Conform to company quality standards and follow company reporting procedures about defective tools and machines which affect work and report risks/ problems likely to affect services to the relevant person promptly and accurately | Single Needle Lock Stitch (SNLS) with needle guard, Over lock Machine (5 thread over lock machine), Button Hole Machine& Button Attach Machine (optional), dexterity kit Pressing Table And  Iron, Computer(optional)  Computer Peripherals(optional) Printer, (optional) Projector(optional) Design Patterns Template,  Shears iron blade for cutting fabric Scissors (plastic  handled scissor for cutting paper) Trimmers Seam Ripper Tailor’s Chalk, Pins & safety pins Dress maker’s Pin, Pin Cushion, Scales/ other shapes of scales like l scale, Measuring Tape Bobbin, Bobbin Case, Dress Form (Template), Cleaning Cloth, Sewing Threads , Hand needle (Various gauges) , Machine Needle (Various Gauges), Sewing kit , Fabric Yardages Required Trims/Accessory  Machine Folders and Attachments, |
| 3 | **Contribute to achieve product quality in stitching operations**    **Theory Duration**  (hh:mm)  05:00    **Practical Duration**  (hh:mm)  16:00    **Corresponding NOS**  **Code Customized** | * Identify and use materials required based on the job card/ work ticket * Take the necessary action when materials do not conform to company quality standards * Report and replace identified faulty materials and component parts which do not meet specification * Identify modifiable defects and rework on them * Report to the responsible person when the work flow of other production areas disrupts work * Test, sort, track feed and examine work in progress * Carry out quality checks at specified intervals according to instructions * Apply the allowed tolerances * Identify faults in materials and components for crease, stains, damage etc. and incorrectly made-up component parts and take appropriate action for rectification * Make adjustments promptly to return product to specification * Maintain the required productivity and quality levels * Promptly report to the right person any problems and risks that you are not responsible for sorting out yourself. * The learners should be able to apply knowledge of: * Creating and using focal points within a display. * Putting together merchandising displays for use inside the store. * Dressing mannequins, busts and other props. * Displaying different types of merchandise. * Choosing a suitable type of grouping. * Using different types, directions and levels of light to create atmosphere. * Achieving add-on sales and why this is important. * Installing creative displays and awareness of trends. * Different approaches to displaying merchandise and choosing the best approach. | Equipment same as above |
| 4 | **Maintain work area, tools and machines**    **Theory Duration**  (hh:mm)  05:00  **Practical Duration**  (hh:mm)  16:00  **Corresponding NOS**  **Code**  **Customized** | * Maintain tools and equipment and handle them safely * Use materials to minimize waste * Carryout running maintenance within agreed schedules * Carry out maintenance and/or cleaning within one’s responsibility * make sure that the correct machine guards are in place * Work in a comfortable position with the correct posture * Use cleaning equipment and methods appropriate for the work to be carried out * Dispose of waste safely in the designated location * Store cleaning equipment safely after use * Carryout cleaning according to schedules and limits of responsibility * Dangers and risks to health, safety and security in relation to storage facilities and stored items. * Reporting dangers and risks to the concerned. * Techniques for cleaning display sites and parts safely and thoroughly. * Checking the condition of items. * Dealing with items that need repair. * Store items securely. | Machinery tools and equipment like: Single Needle Lock Stitch (SNLS), Over lock Machine (5 thread over lock machine)  Button Hole Machine Button Attach Machine (optional) Pressing Table And Iron, Shears “iron blade for cutting fabric) Scissors (plastic handled scissor for cutting paper) Trimmers Seam Ripper Scale (metallic, 6” &  12”)/ other scales  Measuring Tape (0.5”  width) Bobbin with bobbin case, Hand needle (Various gauges) Machine Needle (Various Gauges) Machine Folders and Attachments, |
| 5 | **Maintain health, safety and security at workplace**  **Theory Duration**  (hh:mm)  05:00  **Practical Duration**  (hh:mm)  16:00  **Corresponding NOS**  **Code**  **Customized** | * Comply with health and safety related * instructions applicable to the workplace * Use and maintain personal protective equipment as per protocol * Maintain a healthy lifestyle and guard against dependency on intoxicants * Follow environment management system related procedures * Identify and correct if possible) malfunctions in machinery and equipment * Report any service malfunctions that cannot be rectified * Store materials and equipment in line with manufacturers and organizational requirements * Safely handle and move waste and debris * Minimize health and safety risks to self and others due to own actions * Seek clarifications, from supervisors or other authorized personnel in case of perceived risks * Monitor the workplace and work processes for potential risks and threats * Carryout periodic walk-through to keep work area free from hazards and obstructions, if assigned * Report hazards and potential risks/threats to supervisors or other authorized personnel * Participate in mock drills/ evacuation procedures organized at the workplace * Undertake first aid, firefighting and emergency response training, if asked to do so * Take action based on instructions in the event of fire, * Follow organization procedures for shutdown and evacuation when required | Documents related to the subject |
| 6 | **Comply with Industry, regulatory and organisational requirements**  **Theory Duration**  (hh:mm)  05:00  **Practical Duration**  (hh:mm)  15:00  **Corresponding NOS**  **Code- Customized** | * Carryout work functions in accordance with legislation and regulations, organizational guidelines and procedures * Seek and obtain clarifications on policies and procedures, from your supervisor or other authorized personnel * Apply and follow these policies and procedures within your work practices * Provide support to your supervisor and team members in enforcing these considerations * Identify and report any possible deviation to these requirements | Documents related to Compliance |
| 7 | **Professional/Soft Skills**    **Theory Duration**  (hh:mm)  05:00  **Practical Duration**  (hh:mm)  15:00  **Corresponding NOS**  **Code** -**Customized** | * Work effectively within a team. * Manage job related stress effectively. * Understand the importance of punctuality. * Recognize the causes of AIDS. * Get familiar with prevention methods for AIDS. * Understand Importance of health and hygiene. * Recognise ill-effects of alcohol and tobacco. | White/black board, chalk/marker, duster |
|  | **Total Duration**  **Theory Duration 36:00**  **Practical Duration 108**  **OJT 192** | **Unique Equipment Required:**  Dexterity kit, Single Needle Lock Stitch (SNLS)  SNLS Machine with UBT Over lock Machine (5 thread over lock machine |  |

**ASSESSMENT / EXAMINATION**

| **ASSESSMENT OUTCOME** | **Performance Criteria** | | **Total marks** |  | **Marks Allocation** | |
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| **Out of** | **Theory** | **Skills** |
| **Customized- Process Preparation (PRACTICAL)** | PC1. Demonstrate the process of preparing sewing machine for stitching. | | 100 | 2 | 1 | 1 |
| PC2. Demonstrate the process mending of broken thread. | | 2 | 1 | 1 |
|  | PC3. Demonstrate the process winding on a bobbin for stitching. | |  | 2 | 1 | 1 |
| **Process/Part Identification** | PC4. Identify Needle. | | 2 | 1 | 1 |
| PC5. Identify Tensioner. | | 2 | 1 | 1 |
| PC6. Identify Bobbin pin and bobbin case. | | 2 | 1 | 1 |
| **Process Operation** | PC7. Carry out the process of stitching Circle as per the image,  (Outer Half Circle: 10cm radius Inner Half Circle: 9cm radius  Base fabric: Plain woven or knitted single jersey  GSM: approx. 50-150GSM  Stitches per Inch: 10-12) | | 8 | 4 | 4 |
| PC8. Carry out the process of stitching square shapes as per the image.  (Outer square: 20cmX20cm Inner square: 18cmx18cm  Base fabric: Plain woven or knitted single jersey  GSM: approx. 50-150GSM Stitches per Inch: 10-12) | | 8 | 4 | 4 |
| PC9. Pocket operation of 10”x12”. | |  | 8 | 4 | 4 |
| Image result for pleats | PC1. | Carry out the process of stitching pleat (30cmX 5cm),(Image) |  | 4 | 4 |  |
| **Sequencing the process** | PC5. | If slipped stitch occurs, how will you correct it? |  | 2 | 1 | 1 |
|  | PC6. | Counting of SPI |  | 2 | 1 | 1 |
| PC7. | Measurement of T-shirt. |  | 2 | 1 | 1 |
| **Safety & Soft Skill Demonstration** | PC1. | Demonstrate the use of mask and ear plug. |  | 2 | 1 | 1 |
| PC2. | Demonstrate what will you do first when someone get injured while working on machine |  | 2 | 1 | 1 |
| PC3. | About Personal Hygiene |  | 2 | 1 | 1 |
| **VIVA** | PC4. | What is weft? |  | 2 | 1 | 1 |
| PC5. | What is grain line? |  | 2 | 1 | 1 |
| PC6. | What is a Throat plate? |  | 2 | 1 | 1 |
| PC7. | What is count? |  | 2 | 1 | 1 |
| **Purpose of Process/Operation** | PC8. | Why is thread tensioning required? |  | 2 | 1 | 1 |
| PC9. | What process shows in below image |  | 2 | 1 | 1 |
| PC10 | What is the purpose of hand wheel? |  | 2 | 1 | 1 |

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| **Function Of Parts/Auxiliaries**  **Quality Aspects** | PC11 | What is the function of Stitch regulator? | |  | 2 | 1 | 1 |  |
| PC12 | How does the pressure foot help in stitching on fabric? | |  | 2 | 1 | 1 |  |
| PC13 | What is the function of foot pedal? | |  | 2 | 1 | 1 |  |
| PC14 | What is the function of take up lever? | |  | 2 | 1 | 1 |  |
| PC15 | What will happen when the front and back of the fabric are reversed and stitched? | |  | 2 | 1 | 1 |  |
| PC16 | What will happen if sewing machine maintenance are not good? | |  | 2 | 1 | 1 |  |
| PC17 | What is the range of American needle size? | |  | 2 | 1 | 1 |  |
| PC18 | What are the problems faced due to wrong threading or skipping thread guides? | |  | 2 | 1 | 1 |  |
|  | PC1. | What will happen if wrong adjustment of needle and thread size is used? | |  | 2 | 1 | 1 |  |
| **Safety & Soft Skill Demonstration** | PC2. | Whom should you approach for applying leave? | |  | 2 | 1 | 1 |  |
| PC3. | What will you do before starting the machine in case of safety issues? | |  | 2 | 1 | 1 |  |
| PC4. | In case of emergency alarm what will you do? | |  | 2 | 1 | 1 |  |
| PC5. | How will you handle needle in case of needle broken? | |  | 2 | 1 | 1 |  |
| PC6. | How will you take preventive action to reduce fatigue? | |  | 2 | 1 | 1 |  |
|  |  | |  | **NOS**  **Total** | **100** | 50 | 50 |  |  |
|  |  | |  | **QP Total** | **100** | 50 | 50 |  |  |

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| Grade Obtained (In case of Pass) (tick at appropriate box) | | |  | **A (Above 80 %)** |  | **B (61%– 80%)** |  | **C (50% – 60%)** |

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| **Trainer's Minimum Educational Qualification** | **Academic Qualification** | **Relevant Industry Experience** | | **Training Experience** | |
| **Years** | **Specialization** | **Years** | **Specialization** |
| Graduate | 1 | Supervisor/ Tailor | 1 | Supervisor/Tailor/Trainer |
| Intermediate | 2 | Supervisor/ Tailor | 2 | Supervisor/Tailor/Trainer |
| Matric | 3 | Supervisor / Tailor | 3 | Supervisor/Tailor/Trainer |