



SEWING MACHINE OPERATOR

SYLLABUS/ CURRICULUM

This program is aimed at training candidates for the job of "Sewing Machine Operator", in the "Apparel made ups and home furnishings" Sector/ industry (mention name of sector/industry) and by the end of the program aims at building the following key competencies amongst the learner:

 Carryout Stitching activities using machine or by hand 	Contribute to achieve product quality in stitching operations
3. Maintain work area, tools and machines	 Maintain health, safety and security at workplace
 Comply with industry, regulatory and organisational requirements 	

This course encompasses 5 out of 5 NOS of "Sewing Machine Operator"- AMH/ Q0301, Qualification Pack issued by Apparrel Sector Skill Council of India.

S.No	Module/Topic	Key Learning	NOS
		Outcomes	Code
5.No	Module/Topic Carryout Stitching activities using machine or by hand		
		 Ensure the materials used meet the specification matching : 	
		Within a product	
		Between a pair of products where applicable	
		Carry out test sews	





 Check needles, awls and threads regularly Check if fabric / Component is correctly marked and pieces cut as required Fabric pieces and linings are pinned or sewn together as required, and appropriately hung in readiness for assembly. Report faults in the materials Conform to company quality standards 	
 Report any damaged work to the responsible person 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 Sort and place work to assist the next stage of production and minimise the risk of damage 	
 Leave work area safe and secure when work is complete Complete forms, records and other documentation Make sure the work area is free from hazards Carry out work functions in line with the responsibilities of your ich role 	
 responsibilities of your job role Examine the specific item to identify what type of stitching is best suited Ask questions to obtain more information on tasks when the instructions are unclear and finalize the stitching option with the supervisor, in case of queries 	
 queries Estimate the expected length of time for the process Set up machine ((Apparel Sewing machine) according to manufacturers' instructions and production requirements Use the correct machine, tools (eg: Scissors, Measuring tapes and rulers) and equipment 	
 Set machine controls for the materials being stitched Cut the thread appropriately Thread the needle in the machine and adjust the needle as per the requirements Perform a test run to ensure machine is operating correctly 	
 Report defective machines, tools and/or equipment to the responsible person Operate machines safely and in accordance with guidelines 	





• Optimize the positioning and layout of materials to	
ensure a smooth and rapid throughput	
 Check the equipment prior to making the stitching, including: 	
• Correct controls	
 Correct attachments 	
 Changing needles 	
• Stitch the correct materials in the right sequence as required by the production specification	
 Ensure stitched product conforms to shape and size requirement 	
 Ensure stitched products meets specification in terms of labels and trimmings 	
 Inspect stitched products against specifications 	
 Identify mark and place rejects in the designated locations 	
 Carry out alterations to meet customer requirements 	
 Pass the stitched item to the next stage in the 	
manufacturing process after validation	
 Respond accordingly where stitched items do not meet production specification 	
• Minimise and dispose the waste materials in the approved manner	
• Seek feedback from team mates on work related performance	
 Check with in charge /others when unsure of new product details 	
Clean and make safe machines after use	
• Carry out basic maintenance of own machines	
 Report risks/ problems likely to affect services to the relevant person promptly and accurately Complete forms, records and other documentation Sew and apply trims by hand and machine Carry out Operations at a rate which maintains 	
workflow and meets production targets	
Knowledge & Understanding Organizational Context	
The learners will be able to apply knowledge of	
 The organisation's policies and procedures 	
 Responsibilities under health, safety and 	
environmental legislation	
 Guidelines for storage and disposal of waste materials 	





•	Potential hazards associated with the machines and	
	the safety precautions that must be taken	
•	Protocol to obtain more information on work related tasks	
•	Contact person in case of queries on procedure or products and for resolving issues related to defective machines, tools and/or equipment	
•	Details of the various job roles and responsibilities	
•	Documentation and reporting formats	
•	Work target and review mechanism with your supervisor	
•	Protocol and format for reporting work related risks/ problems	
•	Method of obtaining/ giving feedback related to performance	
•	Importance of team work and harmonious working relationships	
•	Process for offering/ obtaining work related assistance	
TEO	CHNICAL KNOWLEDGE	
The	e learners will be able to apply technical knowledge	
of:		
•	Knowledge of fabrics/apparels and garments and types of fabrics/apparels that require stitching by hand or machine stitching	
•	Use of specification chart	
•	Range of techniques most suited to the different types of apparel	
•	Different apparels and their parts	
•	Sources of updates on apparels and other related areas	
•	Common factors affect stitching	
•	Different types of needles	
•	Broken needle procedure	
•	Thread thickness, shade and sizes and parts of needles	
•	Setting up and adjusting machine controls	
•	Procedures to set the stitch size	
•	The importance of machine, needle, foot needle guard and spool checks	
•	Knowledge about adjusting the top tension	
•	Knowledge of attachments used on the M/C	
•	Increase and decrease the foot pressure as	





		 applicable Knowledge of bobbins and its part and procedures to adjust bobbins Procedures to use bobbin winder Knowledge to use treadle The typical faults of stitching machines and methods to rectify them The actions to take in the event of a machine ceasing to function correctly Common hazards in the work area and workplace procedures for dealing with them The main pieces of equipment needed to stitch the item and their capabilities The characteristics of the materials and how they differ Knowledge about garment parts (pockets, fronts, backs, collars, cuffs, sleeves, etc.) Assembling different garment parts to make the final product The problems encountered when stitching different types of apparels Maintenance, adjustment and replacement of worn parts on the machines required for different types of attachment The manufacturer's instructions for setting up, adjusting and operating the equipment The manufacturer's specifications and instructions for maintenance of equipment Method of sharing domain related information with team members Safety precautions to be taken when stitching 	
2	Contribute to achieve product quality in stitching operations	 Performance Criteria The learners will be able to: 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 Carry out work safely and at a rate which maintains work flow Report to the responsible person when the work 	AMH/N0302







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 and take appropriate action for rectification 	
 Make adjustments promptly to return product to specification 	
 Fault-find materials and components for creased, 	
stained, damage and incorrectly made-up component parts	
 Report faults in other processes to the appropriate 	
person	
 Maintain the required productivity and quality levels 	
Complete and maintain documentation	
Knowledge & Understanding	
Organizational Context	
The learners will be able to apply knowledge of	
 Safe working practices and organisational procedures 	
The organisation's procedures and guidelines	
 Quality systems and sewing processes practiced in the organization 	
 Equipment operating procedures / manufacturer's 	
instructions	
 Types of problems with quality and how to report them to appropriate people 	
 Methods to present any ideas for improvement to line manager 	
 The importance of complying with written instructions 	
Limits of personal responsibility	
 Reporting procedure in case of faults in own/ other 	
processes	
 Importance of documentation 	
Technical Knowledge	
The learners will be able to apply technical	
knowledge of:	
 Different types of faults that are likely to be found and how to put them right 	
 Different techniques and methods used to detect 	





		 faults Consequences of stitching components out of sequence and how to prevent it occurring Types of seams/hems/finish used and purposes they serve Effect of seams/hems not sewn to specifications Types of faults which may occur, how they are identified and methods to deal with it Different types of defects Reasons for keeping stitched items out of contamination The importance of marking and segregating rejects Inspect stitched products against specifications Identify mark and place rejects in the designated locations Carry out alterations to meet customer requirements Appropriate inspection methods that can be used Acceptable solutions for particular faults The types of adjustments suitable for specific types of faults Own responsibilities at work during production Own quality and production targets and the effect of not meeting these on self and/or the team manufacturer's instructions 	
3	Maintain work area, tools and machines	 Performance Criteria The learners will be able to: Handle materials, machinery, equipment and tools safely and correctly Use correct lifting and handling procedures Use materials to minimize waste Maintain a clean and hazard free working area Maintain tools, equipment and machines Report unsafe equipment and other dangerous occurrences Ensure 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 	AMH/N0102





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•	Dispose of waste safely in the designated location	
•	Store cleaning equipment safely after use	
•	Carry out cleaning according to schedules and limits	
	of responsibility	
Kn	owledge & Understanding	
	ganizational Context	
Th	e learners will be able to apply knowledge of	
	Developed by signed and durby of some	
•	Personal hygiene and duty of care	
	Safe working practices and organisational procedures	
•	Limits of your own responsibility	
	Ways of resolving with problems within the work	
	area	
•	The production process and the specific work	
	activities that relate to the whole process	
•	The importance of effective communication with	
	colleagues	
•	The lines of communication, authority and reporting	
	procedures	
•	The organisation's rules, codes and guidelines	
	(including timekeeping)	
•	The company's quality standards	
•	The importance of complying with written	
	instructions	
•	Equipment operating procedures / manufacturer's	
	instructions	
	chnical Knowledge	
	e learners will be able to apply technical	
	owledge f:	
	1.	
	Work instructions and specifications and interpret	
	them accurately	
•	, Method to make use of the information detailed in	
	specifications and instructions	
•	Relation between work role and the overall	
	manufacturing process	
•	The importance of taking action when problems are	
	identified	
•	Different ways of minimising waste	
•	The importance of running maintenance and regular	





	 cleaning Effects of contamination on products Maintenance procedures Hazards likely to be encountered when conducting routine maintenance Different types of cleaning equipment and substances and their use Safe working practices for cleaning and the method of carrying them out 	
 Maintain health, safety and security at workplace 	 Performance Criteria The learners will be able to: Comply with health and safety related instructions applicable to the workplace Use and maintain personal protective equipment as per protocol Carry out own activities in line with approved guidelines and procedures 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 manufacturer's and organisational 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 Carry out 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 Undertake first aid fire-fighting and emergency 	AMH/N0103
	 Undertake first aid, fire-fighting and emergency response training, if asked to do so 	





	 Take action based on instructions in the event of fire, emergencies or accidents Follow organisation procedures for shutdown and evacuation when required Knowledge & Understanding Organizational Context The learners will be able to apply knowledge of Organizational procedures for safe handling of equipment and machine operations Potential risks due to own actions and methods to minimize these Environmental management system related procedures at the workplace Layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points Potential accidents and emergencies and response to these scenarios Reporting protocol and documentation required Details of personnel trained in first aid, fire- fighting and emergency response Actions to take in the event of a mock drills/ evacuation procedures or actual accident, emergency or fire Technical Knowledge The learners will be able to apply technical knowledge of: Occupational health and safety risks and methods Personal protective equipment and method of use Identification, handling and storage of hazardous substances Proper disposal system for waste and by- products Signage related to health and safety and their meaning Importance of sound health, hygiene and good habits 	
5. Comply with industry, regulatory and organisational	 Ill-effects of alcohol, tobacco and drugs Performance Criteria The Learners Will Be Able To: Carry Out Work Functions In Accordance With 	AMH/N0104





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	requirements	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
		Knowledge & Understanding Organizational Context The Learners Will Be Able To Apply Knowledge Of
		The Importance Of Having An Ethical And Value- Based Approach To Governance
		Benefits To Your Company And Yourself Due To Practice Of These Procedures
		 The Importance Of Punctuality And Attendance Specific To The Industry/Sector, Know And Understand:
		A. Legal And Ethical Requirements B. Procedures To Follow If Someone Does Not Meet
		 The Requirements Customer Specific Requirements Mandated As A Part Of Your Work Process
		Technical Knowledge The Learners Will Be Able To Apply Technical Knowledge Of:
		Country / Customer Specific Regulations For Your Sector And Their Importance
		 Reporting Procedure In Case Of Deviations Limits Of Personal Responsibility