

	NORTH CAROLINA DEPARTMENT OF LABOR		No. 23-1
	OSH DIVISION		Date: 10/2009
	OSHNC INDUSTRIAL DATA REPORT		Pages: 3

Industry: **Apparel**

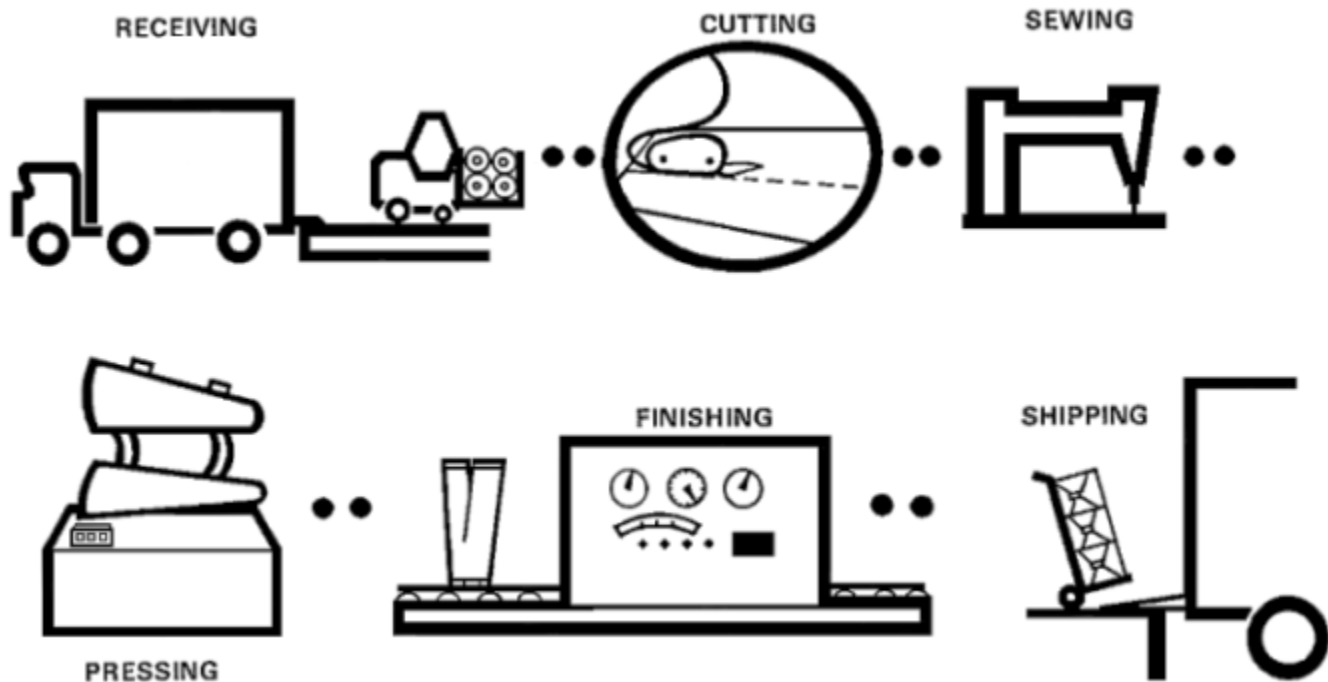
Sub-Group: **Miscellaneous Apparel and Accessories (cut and sew)**


SIC: **2300**

NAICS: **315211, 315212, 315221, 315222, 315223, 315224, 315225, 315228, 315231, 315232, 315233, 315234, 315239, 315291, 315292, 315299, 315991, 315992, 315993 and 315999**

PROCESS DESCRIPTION: Bolts of cloth are delivered from the manufacturer to the plant receiving station where they are unloaded either by hand truck or by mechanical means and placed in storage racks designed for accommodating bolt material. After leaving the storage area, the cloth is taken to the cutting department where it is rolled out on the cutting table, marked off with a pattern and cut, either with a vertical or circular, power-operated, hand-held cutting machine. Following cutting the material is tied into bundles and delivered to the sewing department. From there, garments are sent to the pressing area, where the operators use either hand-held steam irons or large irons with two hand controls for pressing the garments into proper shape. After pressing, the garments are inspected and passed into the packaging and shipping department. NOTE: In some instances the garments may go into a special finishing department where a crease resistant finish is applied which involves a finish and heat drying process by spraying.


PROCESS FLOW:



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Hazards Analysis					
Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Receiving and shipping	Heavy bolts of cloth and boxes	Lifting (strains and hernia)	General	Poor housekeeping Exit signs and exit routes	Slips, trips, falls and fire Entrapment
Cutting department	Vertical and circular cutting knives	Cut and amputations	Shipping and Receiving	Forklifts Dockplates Material handling and hoists	Accidents and carbon monoxide Accidents Back strains
Sewing department	Sewing machines without needle guards	Puncture and eye injury			
Inspection department	Poor lighting	Eye strain			
Pressing	Hot ironers and steam pipes and steam	Burns			
Finishing	Chemicals	Inhalation and skin irritation			
Key OSHNC Standards					
Reference	29 CFR 1910 — General Industry Standards				
ANSI-B30.6	Overhead underhung hoists				
NCGS 95-129	General duty clause - ergonomics				
Subpart E	Exit Routes, Emergency Action Plans, and Fire Prevention Plans				
Subpart I	Personal protective equipment				
Subpart O	Machinery and machine guarding				

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Subpart S	Electrical		
1910.141	Sanitation		
1910.147	Control of hazardous energy (lockout/tagout)		
1910.176	Material handling – general requirements		
1910.178	Powered industrial trucks		
1910.1000	Air contaminants)		
1910.1200	Hazard communication		
Inspection Analysis			
<p>Inspection should begin at the receiving platform and storage area with examination of dockboards, horns and overhead protection for powered industrial trucks, stacking and storage of bolts of cloth and other items, exit signs, fire extinguishers and personal protective equipment (such as safety footwear and gloves). In the cutting department note guards for knives, personal protective equipment, such as metal mesh gloves, electrical cords, cables and fan guards. In the sewing department, evaluate needle guards, eye protection, air nozzles and pressure level, fans, electrical motors, cords and cables, temporary wiring and lighting. The finishing department must be checked for ventilation, chemical use, protective equipment, fire hazards. The packing, inspection and shipping departments would primarily be checked for any or all the above items. Steps, platforms, guard rails, ladders and housekeeping will exist throughout the plant.</p>			
<p>Other Pertinent Comments: Major hazards, in order of frequency, are: struck by objects; falls and slips; caught in, under or between objects; strains; burns; chemical exposure; electrical hazards; powered industrial truck accidents.</p>			

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