

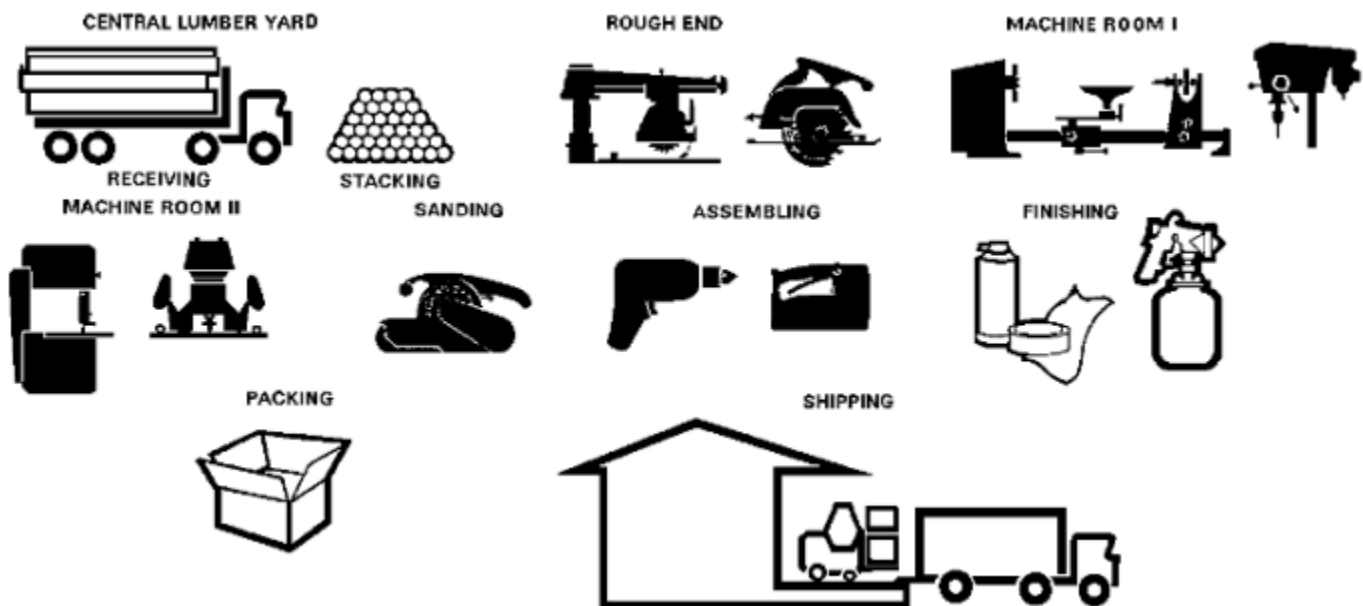
	NORTH CAROLINA DEPARTMENT OF LABOR	No. 25-2
	OSH DIVISION	Date: 10/2009
	OSHNC INDUSTRIAL DATA REPORT	Pages: 3


Industry: Furniture Fixtures	Sub-Group: Wooden Furniture
SIC: 2511	NAICS: 337122 and 337215

PROCESS DESCRIPTION: “Case goods” as applied to wooden furniture manufacturing is an industry term for bedroom, dining room and living room furniture covering the entire process spectrum. Some case goods incorporate upholstery. For a description of the upholstery process refer to IDR 25-1. Raw materials are received by truck and/or rail. The process includes inside and outside storage. If rough lumber is received, it is normally kiln dried prior to use.

The manufacturing process normally includes five distinct steps: 1) Rough end – initial cutting and trimming; 2) Machining – shaping, forming and boring individual furniture parts; 3) Sanding – smoothing and shaping rough cuts and preparing surfaces for finishing applications; 4) Assembling – combining and fastening of individual parts into units; and 5) Finishing – application of paints, stains or preservatives (sanding of some degree may be required at any point of the process). After finished furniture units are inspected they are rerouted for touch up as required and packaged and stored or shipped.


PROCESS FLOW:



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Hazards Analysis						
Major Hazards			Other Hazards			
Location	Item	Hazard	Location	Item	Hazard	
Storage area	Lumber in stacks	Potential fall and collapse	Finishing area	Spray finishes	Skin irritation, respiratory allergies, inhalation; fire and explosion	
Kilns	Kilns	Burns and asphyxiation	Throughout	Flyings, sawdust shavings, flammable materials	Fire and explosion	
				Housekeeping	Slips, trips and falls	
				Forklifts	Carbon monoxide, and vehicular accidents	
				Wood dust	Inhalation and allergic sensitization	
				Hoists	Accidents	
Rough end, machining and sanding areas	Point of operation as on saws, lathes, tenoners, planers, moulders, routers, shapers, jointers, borers and carvers	Amputations, lacerations, crushed limbs				
Rough end machining, sanding & assembling	Flying particles, nails, tacks, hand tools	Eye and face lacerations				
Throughout	Mechanical power transmission apparatus and conveyor systems	Amputations and crushed limbs				
	Noise	Hearing loss				

SIC: 2511

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Key OSHNC Standards	
Reference	29 CFR 1910 — General Industry Standards
ANSI B30.6	Overhead underhung hoists
NCGS 95-129	General duty clause - ergonomics
Subpart D	Walking and working surfaces
Subpart E	Exit Routes, Emergency Action Plans, and Fire Prevention Plans
Subpart I	Personal protective equipment
Subpart O	Machinery and machine guarding (especially 1910.213 – woodworking machinery)
Subpart S	Electrical
1910.94	Ventilation
1910.95	Occupational noise exposure
1910.106	Flammable and combustible liquid handling and storage
1910.107	Spray finishing operations using flammable and combustible materials
1910.146	Permit-required confined space entry
1910.147	Control of hazardous energy (lockout/tagout)
1910.151	Medical services and first aid (especially eye wash and emergency shower stations)
1910.176	Handling materials – general requirements
1910.178	Powered industrial trucks
1910.1000	Air contaminants
1910.1200	Hazard communication

Inspection Analysis
<p>The inspection should begin in the receiving area and/or outside storage area, checking especially for powered industrial truck operations, walking-working surfaces and stacking of lumber/furniture parts. Where used, dry kilns must be checked for emergency exits, pits and steam carrying apparatus. Rough end and machining and sanding areas should be carefully checked for proper machine guarding (mechanical power transmission apparatus, points of operation and rotating parts) and noise level. All wiring, motors and other electrical equipment subjected to wood dust must be appropriate for the hazardous location. Assembly areas must be closely checked for portable power tool guarding and operation and for eye and face protection. Finishing area must be checked for air contaminant exposure, storage and handling of flammable and combustible materials and spray booth construction and operation. Electrical equipment in spray areas must be installed per Subpart S – Electrical. Throughout, check for housekeeping, especially heavy accumulations of sawdust and shavings. Check means of egress such as aisle and passageway clearance.</p>
Other Pertinent Comments: