



NORTH CAROLINA DEPARTMENT OF LABOR

No. 55-3

OSH DIVISION

Date: 10/2009

OSHNC INDUSTRIAL DATA REPORT

Pages: 4

Industry: Automotive Dealers and Gasoline Service Stations

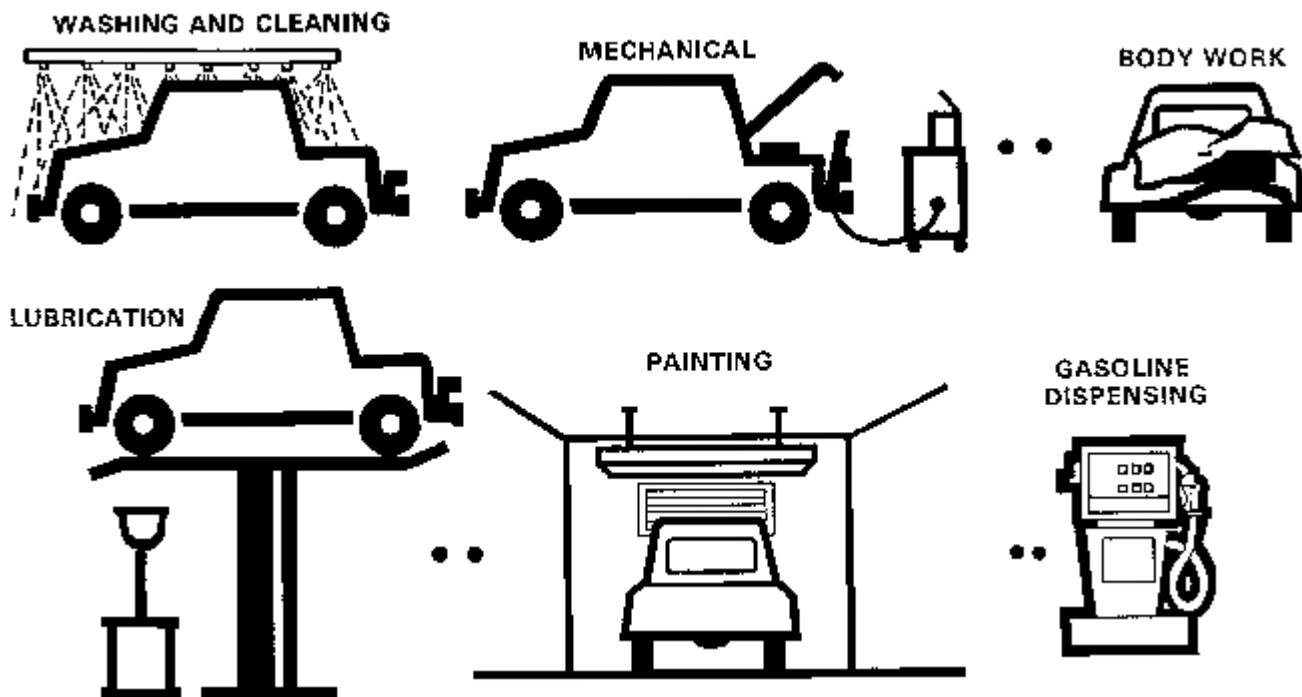
Sub-Group: Automobile Repair Shops – Motor Vehicle Dealers

SIC: 5511, 7531, 7532, 7533, 7534, 7536, 7537, 7538 and 7539

NAICS: 326212, 441110, 811112, 811113, 811118, 811121, 811122 and 811198

PROCESS DESCRIPTION: Service Stations – Cars are brought in for maintenance including lubrication and oil changes, washing and cleaning, tire repairs, rotation of wheels, alignments, drive train repair, motor repair and overhaul, and refueling. Garages – Motor vehicles are brought into garages for motor repair and overhaul, cleaning (washing vehicles as well as motors), tire repair or replacement, rotating and balancing wheels, and front-end alignment. All types of mechanical repairs are made such as drive train, motors, and general overhauling. Body Shops – Auto bodies are straightened out (bent fenders and body dents) and upholstering, either repaired or new material, is put in. Paint Spray Booth or Room – Cars are painted by parts, in their entirety or touched up. Gasoline Dispensing Area – Cars are refueled for road service.

PROCESS FLOW:





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Hazards Analysis

Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Wash area	Wet floors	Slips, falls	Throughout	Lifting, removing, replacing parts, accessories, tires, batteries, use of tools and equipment	Sprains, strains, hernia, cuts, abrasions, punching or possible amputations, foreign objects in eyes
Service station and garage	Tire replacement and repair	Jacks slipping out from under cars and trucks – rims blowing off	Housekeeping	Electrical hand tools and similar equipment	Slips, trips and falls Shock or electrocution
Battery charging area	Ventilation Electrolyte addition	Hydrogen gas Acid in eyes and on body, acid burns and gas explosions	Throughout	Improper storage of oxygen, fuel and combustibles Excessive air pressure for cleaning purposes	Fires and explosions Eye injuries, puncture wounds
Garage and service stations	Material handling equipment Improper electrical wiring and equipment Grinding, welding	Accidents, falls Shocks, electrocution, fires Fume inhalation, eye injuries	Spray finishing	Chemical Use Chemical storage and electrical installation	Vapor inhalation, respiratory irritation Explosion, fire

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Key OSHNC Standards

Reference	29 CFR 1910 — General Industry Standards
Subpart D	Walking and working surfaces
Subpart I	Personal protective equipment
Subpart O	Machinery and machine guarding
Subpart Q	Welding, cutting and brazing
Subpart S	Electrical
1910.94	Ventilation
1910.101	Compressed gases
1910.106	Flammable and combustible liquids handling and storage
1910.107	Spray finishing with flammable and combustible liquids
1910.147	Control of hazardous energy – (lock-out/tag-out)
1910.151	Eyewash and emergency showers
1910.169	Compressed air receivers
1910.176	Handling materials
1910.1000	Air contaminants
1910.1200	Hazard Communication

Inspection Analysis

The inspection could begin in the auto cleaning area. Housekeeping, walking-working surfaces, and electrical violations must be noted.

The mechanical repair area would include tire changing equipment (jacking and repair devices). The overhead hoist must be examined closely and maintenance records inspected. Portable lighting equipment must be of correct type. Solvents must be in approved containers. Bench grinders must be inspected for proper guarding and wheel condition. Cleaning air pressure and equipment violations must be noted. Lubrication and Alignment Departments may have housekeeping problems (slick floors) and unguarded pits. Wiring in the pit must conform to required specification. Body repair will include welding and cutting apparatus with apparent hazards. Personal protective equipment for welding, cutting, grinding, and painting will be required.

The spray paint area will require proper ventilation, correct wiring and lighting and other precautions for Class I, Division 1, hazardous locations.

Gasoline dispensing will necessitate "No Smoking" requirements and correct ventilation of underground tanks.

Other Pertinent Comments: