



NORTH CAROLINA DEPARTMENT OF LABOR

No. 75-1

OSH DIVISION

Date: 10/2009

OSHNC INDUSTRIAL DATA REPORT

Pages: 3

Industry: Automobile Dealers and Gasoline Service Stations

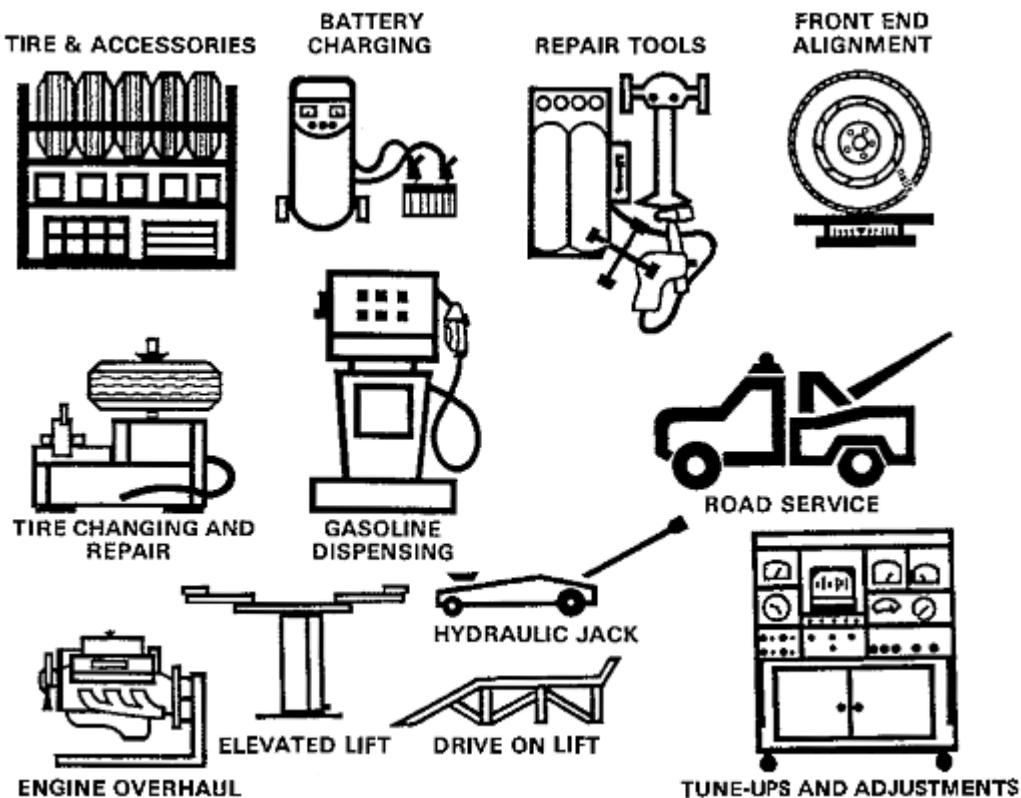
Sub-Group: Automobile Repair Shops

SIC: 7538

NAICS: 811111, 811112, 811113, 811118, 811121, 811122, 811191, 811198 and 326212

**PROCESS DESCRIPTION:** Automobile repair shops remove, replace and adjust malfunctioning parts along with engine tune-ups and adjustment of engine, transmission and chassis components. Vehicles are driven or towed to premises where repairs or maintenance is performed. Roadside service is sometimes available. Equipment used includes basic and specialized hand, pneumatic and electrical tools, test meters, battery chargers, tire changing and repairing tools, bench or pedestal grinders, welding equipment, hydraulic lifts and front end machines. Note: For details on tires, batteries, accessories and gasoline dispensing, see Industrial Data Reports for 55-1, 55-2 and 55-3.

**PROCESS FLOW:**





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### **Hazards Analysis**

<b>Major Hazards</b>			<b>Other Hazards</b>		
<b>Location</b>	<b>Item</b>	<b>Hazard</b>	<b>Location</b>	<b>Item</b>	<b>Hazard</b>
Shop area	Lifting, removing, replacing parts, accessories, tires, batteries, use of tools and equipment	Sprains, strains, hernia, cuts, abrasions, pinching or possible amputation, foreign objects in eyes	Shop area	Carbon monoxide Chemical storage, handling, use	Asphyxiation Vapor inhalation, skin and eye irritation/injury
Battery storage area	Acid electrolyte	Burns of skin and eyes, strong skin irritant	Battery charging area	Hydrogen gas	Explosion and fire
Throughout	Housekeeping Electrical hand tools and similar equipment	Slips, trips or falls Shock or electrocution	Gasoline pump area	Flammable vapors	Explosion and fire

### **Key OSHNC Standards**

<b>Reference</b>	<b>29 CFR 1910 — General Industry Standards</b>
Subpart D	Walking and working surfaces
Subpart I	Personal protective equipment
Subpart O	Machinery and machine guarding
Subpart S	Electrical
1910.94	Ventilation
1910.101	Compressed gases
1910.106	Flammable and combustible liquids handling and storage
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**



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Due to the variety of different sizes and types of automobile repair shops, the inspection would begin at virtually any point. Inspection must include walking-working surfaces, storage of tires, batteries, accessories, parts, flammable liquids and welding equipment. Location of vent pipes for storage tanks, "No Smoking" signs, suitable facilities for flushing eyes and body and eye, face and hand protective equipment in battery charging and handling area must be checked. V-belts must be guarded on air compressors, bench grinder guarded and work rest adjusted properly, welding cables in good condition, oxygen and other gas cylinders properly stored and handled; tools used for repair work, mounting tires, installing batteries and accessories, jacks and lifts in good working condition. Tools must be grounded when electrically operated with wiring and cases in good condition. In hazardous locations (Class I, Division 1 and 2) assure that wiring, receptacles, switches and lights are approved for that location. Eye protection must be provided and used with bench pedestal grinders or welders and when working under vehicles.

**Other Pertinent Comments:** Hand tools and working surfaces are the principal causes of accidents in automobile repair shops. Working and walking surfaces must be kept clean, hand tools kept in good working condition and training should be provided in the operation of powered tools and other equipment.