

Role and Objective Of Workshops:

Most of the workshops mainly undertake the POH of coaches, wagons and other rolling stocks over Indian Railways. Objective of workshops include production and maintenance of rolling stock and ensure its availability to cater transportation needs of Indian Railways.

Major Activities carried out in a Mechanical Workshop involve the following :

- (i) Repair and reconditioning of rolling stock and of Plants & Machinery
- (ii) Assembly and overhauling of :
 - a) Coaching Stock
 - b) Goods Stock
 - c) Locomotives
 - d) Cranes of different capacities
- (iii) Implementation of all the instructions/ modifications /upgradations for rolling stock enforced by Railway Board or RDSO
- (iv) Disposal of condemn rolling stock.

Workshops Role :

- Ensure timely turn out all rolling stock as per standard maintenance procedures and schedules
- Reliability of Maintenance
- Cost Reduction
- Improve cycle time
- Safety aspects

Different Shops and Sections With Facilities in Workshops

Stripping Shop	EOT crane, Pneumatic Air Pressure, Rivet Cutting/Pneumatic Buster/Hammer, Oxy Acetylene Gas Cutting, Plasma Cutting, Welding Plant etc.
Lifting/ Body Repair/Corrosion Repair Shop	EOT crane(25 Ton capacity 02 Nos or Hydraulic Jack 10Ton Capacity 04Nos for Coach lifting and 10Ton Capacity for Wagon Lifting) , Pneumatic Air Pressure, Trustles, Rivet Cutting/Pneumatic Buster/Hammer, Surface Grinder, Oxy Acetylene Gas Cutting, Plasma Cutting, Welding Plants, etc.
Trolley or Bogie Shop	EOT crane, Jib Crane, Pneumatic Air Pressure, Rivet Cutting/Pneumatic Buster/Hammer, Hand Grinder, Oxy Acetylene Gas Cutting, Manipulator, Welding Plant, Sand blasting Plant etc.
Welding Shop	MMAW transformer, Rectifier, MIG , Welding Booth, Gas Manifold, Profile cutting machines ,Ovens
Wheel Shop	EOT Crane, CNC Wheel Lathe, AJTB(Axle Journal Turning and Burnishing Machine), Axle Turning Lathe, Vertical Disc Boring Machine, Wheel Press 500Ton.
Roller Bearing/CTRB	Dust Free Closed space, Bearing Extractor, Bearing Cleaning Plant , Zyglow Test facility, Packing and Grease Filling Machine
Machine Shop	Turret Lathe, Centre Lathe, Milling Machine , Drilling Machine, Shaper, Slotting Machine, Jib Crane, EOT crane
Panel Plate or Sheet Metal Section	Shearing Press machines, Power Punching Machine , Bending/Rolling machine
Air Brake Lab	Compressor, DV Test Bench, Brake Cylinder Test Bench, Testing facilities/Benches for Angle Cock, Dirt Collector, NRV, Auxilliary Reservoir, APM etc

<p>Millwright</p> <ul style="list-style-type: none"> • General • Bench Fitting • EOT Crane Sec. • Motor/Transport Section • Compressor Sec 	<p>Bench Vice, Grinding M/c, Welding Plant, Hand Tools</p> <p>Trained Staff (Crane Drivers) for Operating and for Maintenance of EOT Cranes</p> <p>Mobile Crane, Fork Lifter, Flow Car, Lister, Tractor, Truck, Trailer , Hydraulic Jack</p> <p>Different Types of Air Compressors Connected with Pneumatic supply network</p>
<p>Smithy Shop</p>	<p>Power Press machines, Forging, Heat Treatment plant, Spring Test /Scragging Machine, Leaf spring Maintenance</p>
<p>Tool Room</p>	<p>Bench Vice, Grinding M/c, Slotter, Milling M/c , Pneumatic Pressure, Welding plant, Calibration/Standard Room</p>
<p>Paint Shop</p>	<p>Spray Painting, Grit Blasting, Paint Mixing Plant, screen printing equipment Different type of tools and Brushes</p>
<p>Electrical Maintenance Shop</p>	<p>Motor Winding, Oven, Insulation and other Tools and equipment for Electrical Maintenance</p>
<p>Carriage furnishing Shop</p>	<p>Hand Tools like spanners, Screw drivers, cutting tools Power Saw, Drills, Work benches etc.</p>
<p>Carpentry Shop</p>	<p>Standard carpentry tools, Working tables and benches</p>
<p>Shell Component shop</p>	<p>Welding and gas cutting equipments, Shearing and bending machines.</p>

Role and Functions of Shops

Shop	Role/Functions
Stripping Shop	Stripping of corroded components and Dismantling of various assemblies
Lift shop	Lifting and lowering of rolling stock
Body repairs(corrosion repairs) shop	To carry out corrosion repairs in underframe like head stock, sole bar and body repair work, and trough floor renewals in coaches
Bogie shop	Complete overhauling of bogies and its sub assemblies.
Wheel Shop	Wheel and axle inspection and gauging, maintaining wheel profile, re-discing, re-axling as per requirement
Roller bearing	RB dismantling, overhauling as per standard procedures
Welding shop	To provide welding facilities as per requirements to different shops, like gas cutting plants, plasma plants, MMAW, CO ₂ Welding, MIG etc.
Air brake	Over hauling and performance testing of different air brake components and assemblies like DV, AR, Brake cylinder, Cut off angle cock, NRV etc.
Shell Component shop	Fabrication of coach body items like sole bars, trough sheets, pressed channels and angular, footsteps Battery box frames
Carriage furnishing Shop	Interior panel repairs, floor repairs like floor pvc, aluminium chequered plate, berth repairs ,window shutter repairs, water supply and lavatory furnishing related works. Providing curtains in AC coaches
Carpentry Shop	Wooden work, birth ,window glass repair and fitting
Tool Room	Maintenance of Tools, Gauges, Jigs, fixtures. Calibration activity
Machine shop	To fulfil in house requirement of drilling , turning, threading, parting, shaping, milling , & grinding etc.
Paint shop	Painting on rolling stock as per colour scheme, A,C paint schedules in coaching stock
Millwright	Preventive and brake down maintenance of various machinery and plants available in workshops like EOT cranes, tracers, compressors trucks , fork lifts, transport vehicles and different material handling equipments.
Electrical Shop	Maintenance of Electrical Equipments, Motors, Alternators, RMPU, Fan, lights etc.