



Four-wheeler Service Technology

This 4-Wheeler Service Technology webinar was organized on the year of 2017-18. By Centurion University of Technology and Management.

4 Wheeler Service Technology

Centurion UNIVERSITY
Shaping Lives...
Empowering Communities...

10th January 2018

Centurion University of Technology and Management



Course Objectives:

- Would be able to understand each individual part's working mechanism
- Able to find out the problems using fault diagnosis method or by scan tool
- Would be able to guide the technicians for standard operating procedures to resolve fault

Learning Outcomes:

- Evaluate the information gathered from the customer report / job card / technician notes
- Warranty claim and maintenance details and take appropriate action to ensure maximum customer

Pre-requisites: Nil
 Course Type : Audit (Workshop)
 Duration : 30 Hours

Module	Contents	Duration
Module-1	<ul style="list-style-type: none"> • Introduction to an Automobile • Practice Briefly explain BS IV & BS VI model. • Practice overview Inspection of BS engine and there different parts • Systems of measurement • Practice: Demonstration of Least Count, calculation, care & use of Veneer Caliper, micrometer and dial gauge. • Practice: Demonstration of use of different tools . • Introduction to engine • Practice Demonstration and Practice of Perform measuring practice to check the flatness of the cylinder head is warped or twisted with straightedge is used with a feeler gauge. 	10 hours
Module-2	<ul style="list-style-type: none"> • Diesel Engine Components. • Practice Demonstration of Perform measuring practice on cylinder bore, Connecting rod bore, inside diameter (ID) of a camshaft bearing with Telescope gauges. • Practice Demonstration and Practice of major exterior components or parts of the automobile & Layout of an automobile • Piston and connecting rod • Practice Demonstration and Practice of Checking connecting rod for bend and twist. Assemble the piston and connecting rod assembly. • Construction of a engine • Practice: Demonstration of Perform measuring camshaft journal dia., crank shaft journal dia. , piston diameter by the help of micro meter. 	10 hours
Module-3	<ul style="list-style-type: none"> • Intake & exhaust systems • Practice: Demonstration and Hands on practice on Execute overhauling of injectors and testing of injector • Diesel Fuel Systems and braking. • Practice: Demonstration and Practice of working and service procedure of ABS and identification of different parts of air brake system and its work principle. • Emission Control Vehicle emissions. • Practice: Demonstration and Practice of EGR /SCR Valve Remove and installation for inspection. 	10 hours
TOTAL		30 hours

Anita Patra



Dr. Anita Patra, Registrar, CUTM

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A Report on Four- Wheeler Service Technology

Total number of participants: 64

Date : 10/01/2018

A motor vehicle service or tune-up is a series of maintenance procedures carried out at a set time interval or after the vehicle has travelled a certain distance. The service intervals are specified by the vehicle manufacturer in a service schedule and some modern cars display the due date for the next service electronically on the instrument panel.

Automotive service technicians and mechanics typically do the following; Identify problems, often by using computerized diagnostic equipment Test parts and systems to ensure that they work properly Perform basic care and maintenance, including changing oil, checking fluid levels, and rotating tires Repair or replace worn parts, such as brake pads, wheel bearings, and sensors Perform repairs to manufacturer and customer specifications Explain automotive problems and repairs to clients.

Features

Auto Service Technician (two and three wheelers) is also known as Mechanic, Technician, 2 Wheeler Technician, Repair & Maintenance Technician. Carry out repair and routine servicing and maintenance (including electrical and mechanical aggregates) of vehicles (two and three wheelers).

The participants were able to understand each individual parts working mechanism and found the problems using fault diagnosis method or by scan tool. Further, the participants could guide the technicians for standard operating procedures to resolve fault. This programme is helps to

promote enterprenurship development skills regarding wheeler service technology among the participants.



**Overall Layout Demonstration
on 10.01.2018**



**Demonstration on Parts
Disassembling on 10.01.2018**

The programme helped the participants to evaluate the information gathered from the customer report/job card /technician notes. Warranty claim and maintenance details and take appropriate action to ensure maximum customers were also discussed in the programme.

The followings were a few major areas which were discussed extensively during the programme:

- **Introduction to an Automobile**
- **Diesel Engine Components**
- **Intake & exhaust systems**

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Name of Event: Four-wheeler Service Technology

Organized by: Centurion University of Technology and Management

Date: 10 January 2018

Event Description: This 4-Wheeler Service Technology webinar was organized in the year of 2017-18. By Centurion University of Technology and Management.

List of Participants:

S. No.	Name	Registration Number	Present/Absent
1	KAMAL BEHERA	170301160002	P
2	MD HAFIZUR REHMAN	170301160008	P
3	BISWAJIT MOHANTY	170301160010	P
4	DURGASANKAR MOHANTY	170301160013	P
5	SUDIPTA SUNDAR ROY	170301160016	P
6	SAHIL KUMAR PANDEY	170301160017	P
7	MANJEET SHUBHANKAR	170301160020	P
8	MD ISHA	170301160022	A
9	HARA PRASANNA ROUT	170301160026	P
10	SOMABRATA SAHU	170301160029	P
11	ASIT KUMAR SAHOO	170301160030	P
12	SUBHAM PATRA	170301160032	P
13	SUMAN KUMAR DHANAL BISOI	170301160033	P
14	SOUMYA RANJAN MISHRA	170301160034	P
15	S. GYANESH PATRO	170301160035	P
16	SANTOSH SAHU	170301160037	P
17	ADITYA KAR	170301160040	P
18	GOBARDHAN MALIK	170301160041	P
19	RAKESH MOHANTY	170301160042	P
20	MOHAMMAD ASIF IBRAHIM	170301160044	P
21	RITWICK DAW	170301160045	A
22	MD.SAMIR ALI	170301160047	P
23	BHAGABAN BISWAL	170301160049	P
24	SAWAN KUMAR BISWAL	170301160050	P

25	BISWA DEB GUIN	170301160052	P
26	RAJVEER CHHOTRAY	170301160053	P
27	RAKESH SINGH	170301160054	P
28	SRIKANTA BEHERA	170301160055	P
29	BISWAJEET DAS	170301160056	P
30	AMIT KUMAR PRADHAN	170301160058	P
31	ROCKEY JENA	170301161059	P
32	SIDHARTH PANDA	170301161060	P
33	ANUNAYA KAR	170301161061	P
34	PRIYARANJAN DASH	170301161062	P
35	DEBASISH MANTRI	170301161063	A
36	MANDEEP BOSE	170301161064	P
37	ARUN ALOK MAHAKUD	170301161065	P
38	KIRAN SOREN	170301161066	P
39	SATYAJIT NANDA	170301161067	P
40	SASWAT KUMAR SWAIN	170301161068	P
41	ROHAN KUMBHAR	170301161069	P
42	ROHIT PATEL	170301161070	P
43	SURAJ SAREJENDU PAL	170301161071	P
44	BHABANI SANKAR BEHERA	170301161072	P
45	ABHISHEK PRASAD	170301161073	P
46	RAVI THAPA	170301161074	P
47	SOURAV KUMAR NAYAK	170301190003	P
48	ABHIJEET ROUT	170301190004	P
49	DEBASISH PRADHAN	170301190005	P
50	AJAYA KUMAR BARAL	170301190006	A
51	CHIRAG MOHANTY	170301190007	P
52	PRITAM NANDI	170301190010	P
53	ASHISH KUMAR JAISWAL	170301190011	P
54	SATYAJIT ROY	170301190012	P
55	TUSHAR KANTI DEY	170301190013	P
56	MOUVIK KUNDU	170301190014	P
57	KAMESH CHANDRA NAYAK	170301190015	P
58	SHUBHAM RAJ	170301190016	P
59	VISHAL KUMAR SINGH	170301190018	P
60	TAPAS KUMAR SAHOO	170301190019	P
61	ARCHISMAN MISHRA	160301161120	P
62	HRUSHIKESH	160301161122	P

	CHAMPATI		
63	SUBHAJYOTI DAS	160301161123	A
64	AKASH MONDAL	160301161124	P

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