

**SECTOR -AUTOMOTIVE**  
**JOB ROLE: Auto Service Technician L1**  
**QP CODE: ASC/Q1401**  
**CLASS -IX**

**Note -**  
**Total No of Topics - 32**  
**Total No of Topics Deducted from seven section - 7(7 topic is of time duration 25 hrs)**  
**% of (Total no of topics) =  $25/95 * 100 = 26\%$ (according to time duration)**  
**=  $100/\text{Total Topic} * \text{No of Topic Deducted} = 100/32 * 7 = 22\%$ (according to number of topic)**  
**26 % Reduction Of Sector as Follows - (Theory and Practicals need to drop out are highlighted in red color)**

Sl. No.	List Of Units	List of Practicals Aligned With Each Unit	Unit/Session to be reduced(Theory and Practical)	Remark(Reason for dropping or reduce)
<b>UNIT 1:</b>	<b>History and Evolution of Automobiles</b>			
SESSION 1	Describe the Invention of wheel,	Able to describe the Invention of wheel		
SESSION 2	Invention of wheel cart and animal powered horse cart,	Able to describe the Invention of wheel cart		
SESSION 3	Invention of Automobiles and Evaluation till date	Able to describe Invention of Automobiles and Evolution till date		
SESSION 4	Invention of automobile (Post world war II)	Able to describe Invention of Automobile and Evolution post World War II		
<b>UNIT 2:</b>	<b>Various types of Automobiles</b>			
SESSION 1	Two Wheelers & Three Wheelers vehicle	Able to identify three Wheelers used, Make drawing of three Wheelers		

SESSION 2	Passenger vehicle & Commercial vehicle	Able to identify passenger vehicles used, make a drawing of passenger vehicle. Able to identify commercial vehicle used, make drawing of commercial vehicle		
SESSION 3	Agricultural vehicle	Able to identify agricultural vehicle used. Make drawing of agricultural vehicle.		
SESSION 4	Construction Equipment Vehicle	Identify construction equipment vehicle used. Drawing of construction equipment vehicles,		
SESSION 5	Special Vehicles	Able to identify special vehicles used, Drawing of special vehicles		
<b>UNIT 3:</b>	<b>Major Systems &amp; Components of an Automobile</b>			
SESSION 1	Use of Chassis Frame and Auto Body	Able to identify and describe the importance of Chassis Frame and Auto Body Able to make a drawing of the Chassis Frame and Auto Body		
SESSION 2	Use of Engine and its components	Able to identify and describe the importance of the Engine and its components Able to make a drawing of the Engine and its components.		
SESSION 3	Use of Lubrication System	Describe the importance of the Lubrication and its components .Able to make a drawing of the Lubrication system and its components		
SESSION 4	Use of Cooling System	Able to identify and describe the importance Cooling System, Able to make a drawing of the Cooling System		
SESSION 5	Use of Fuel Supply system	Able to identify and describe importance Fuel Supply System, Able to make a drawing of the Fuel Supply System		

SESSION 6	Use of Transmission System	Able to identify, describe importance of Transmission System, Able to make a drawing of the Transmission System		
SESSION 7	Use of Front and Rear Axle	Able to identify and describe the importance of Front and Rear Axle, Able to make a drawing of the Front and Rear Axle		
SESSION 8	Use of Steering, Use of Suspension System	Able to identify and describe the importance of steering, Able to make drawing of steering.Able to identify and describe importance of suspension system .Able to make a drawing of the Suspension System		
SESSION 9	Use of Wheels and Tyres Use of Brake	Able to identify and describe the importance Wheels and Tyres.Able to make drawing of Wheels and Tyres.Able to identify and describe importance of Brake.Able to make drawing of Brake		
SESSION 10	Use of Electrical & electronic Systems Use of Air Conditioning System	Able to identify and describe the importance of the Electrical & Electronic Systems.Able to make a drawing of the Electrical & Electronic Systems.Able to identify and describe the importance of Air Conditioning System Able to make a drawing of Air Conditioning System		
SESSION 11	Use of Active and Passive Safety	Able to identify and describe importance of Active and Passive Safety Able to make a drawing of Active and Passive Safety		
<b>UNIT 4:</b>	<b>Road Safety</b>			

SESSION 1	Importance of safety rules and safe practices	Able to list the safety rules to be followed.		
SESSION 2	Safe and responsible driving	Able to use safe practices.Able to list the safe and responsible driving ,procedures practices while driving.		
SESSION 3	Road Signs	Able to identify various road signs, traffic signals and describe the rules.Able to make sketch of various road sign, traffic signals and describe the rules,		
SESSION 4	Traffic signals and rules, ,Driving rules and registration	Able to describe driving rules.Able to fill forms for driving and registration		
SESSION 5	Driving License	Able to describe different license forms .Able to write license rules .Able to fill forms for license		
<b>UNIT 5 :</b>	<b>Automobiles and our Environment</b>			
SESSION 1	Air Pollution and its norms Air Pollution and Automobiles	Able to list Air pollution norms	THEORY-Air Pollution and its norms Air Pollution and Automobiles PRACTICAL-Able to list Air pollution norms	We can skip the unit because there are some topics in science where students will be going to learn about the causes and effects of environmental pollution.
SESSION 2	Auto emissions and EU/ BS Standards	Able to observe Air Pollution and Automobiles, Able to identify various Standards like EU/ BS	THEORY- Auto emissions and EU/ BS Standards PRACTICAL-Able to observe Air Pollution and Automobiles, Able to identify various Standards like EU/ BS	
SESSION 3	PUC Certification	PUC Certification.Able to make list of various standards.Able to describe about PUC Certification.	THEORY-PUC Certification PRACTICAL-PUC Certification.Able to make list of various standards.Able to describe about PUC Certification.	

<b>UNIT 6 :</b>	<b>Introduction to Vehicle Maintenance &amp; Servicing</b>			
SESSION 1	Importance of Vehicle Maintenance and Servicing	Able to perform basic procedures for vehicle maintenance. Able to describe vehicle maintenance	THEORY-Importance of Vehicle Maintenance and Servicing PRACTICAL-Able to perform basic procedures for vehicle maintenance.Able to describe vehicle maintenance	1)This unit is part of class of class-X syllabus where student can elaborately gain knowledge on servicing tools and equipment and complete process of servicing. 2)So because of limitation of time this unit can be eliminated.
SESSION 2	Tips to extend the life of vehicles	Able to list tips to extend the life of Vehicles	THEORY-Tips to extend the life of vehicles PRACTICAL-Able to list tips to extend the life of Vehicles	
SESSION 3	Procedures during vehicle servicing	Able to check the tips, Able to list procedures during vehicle servicing	THEORY-Procedures during vehicle servicing PRACTICAL-Able to check the tips, Able to list procedures during vehicle servicing	
<b>UNIT 7 :</b>	<b>Innovations &amp; Developments in Automobiles</b>			
SESSION 1	Explain about Innovation and Development in automobile	Able to identify innovation in Automobiles. Able to understand about new developments	THEORY-Explain about Innovation and Development in automobile PRACTICAL-Able to identify innovation in Automobiles. Able to understand about new developments	1)This unit is part of class of class-X syllabus.So if we skip it for class IX they will be going to study the same thing in class-X. 2)So the elimination will not effect their learning objectives.