

Syllabus For Car Washer and Helper Technician

Course Name	Car Washer and Helper Technician
Course Code	AUT/2023/CWHT/152
Sector	Automotive
Level	3
Occupation	Washer cum Helper in Automobile Workshop or Service Station
Job Description	Car washing, Cleaning of Exterior & Interior parts of a Car/Vehicle, Helper of Service Technician for maintenance & servicing of vehicle.
Course Duration	Total Duration 390 Hrs. (T-90, P-180, OJT-60 and ES-60)
Trainees' Entry Qualification	Grade 10 OR Grade 8 with two year of (NTC/ NAC) after 8 th OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 8th grade pass with 2 yrs. relevant experience OR Previous relevant Qualification of NSQF Level 2 with one yr. experience OR Previous relevant Qualification of NSQF Level 2.5 with 6 months experience
Trainers Qualification	ITI (MMV or Mechanic Diesel) with 5 years experience or Diploma (Mechanical or Automobile) with 2 years experience in Automobile Sector.
Recognition of Prior learning (RPL):	Candidates with class 5 pass out and who have prior learning experience of more than 5 years in the relevant field and are desirous of being certified will be considered. Such candidates, if applying for certification, will undergo training for 12 Hrs and appear for an assessment of their skills. Assessment will be based on all the modules. Certificates will be provided to candidates after successful assessment.

Structure of Course:

Module No.	Module name	Outcome	Theory (Hrs.)	Practical (Hrs.)	Total (Hrs.) [Multiple of 30]	RPL Duration (Hrs)
1	Introduction to Job – Role & Responsibility and Communicative Skill	Describe the role and responsibilities of a Car Washer and Helper Technician and use effective communication skill at workplace.	10	20	30	1
2	Occupational safety	Identify common safety hazards specific to auto workshops and apply appropriate safety measures to ensure a safe working environment.	15	15	30	1
3	Handling and Maintenance of tools and equipment	Identify, use and take care of tools and equipment.	25	35	60	2
4	Vehicle cleaning and washing	Demonstrate and perform the steps to clean and wash a	15	45	60	2

Module No.	Module name	Outcome	Theory (Hrs.)	Practical (Hrs.)	Total (Hrs.) [Multiple of 30]	RPL Duration (Hrs)
		vehicle.				
5	Vehicle service, maintenance and repair	Identify common vehicle components and support the operator in repair and maintenance of vehicle.	25	65	90	4
6	OJT	Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT).	-	60	60	--
7	Employability Skill	As per NCVET guided curriculum (Employability Skill)	60	-	60	2
TOTAL:			150	240	390	12

SYLLABUS:**Module No. 1:** Introduction to Job – Role & Responsibility and Communicative Skill

Outcome: Describe the role and responsibilities of a Car Washer and Helper Technician and use effective communication skill at workplace.

Theory Content:

- T – 1.1 Short overview of Automobile manufacturing market in India.
- T – 1.2 Brief account of manufacturers of automotive equipment and components in India.
- T – 1.3 Duties and responsibilities of a Car Washer and Helper Technician.
- T – 1.4 Scope of job of a Car Washer and Helper Technician in Automobile industry.
- T – 1.5 Standard Operating Procedures (SOP) to be followed for service, repair and maintenance of vehicles.
- T – 1.6 Communication skill – different ways of communication with customers, co-workers, seniors, higher authority etc.
- T – 1.7 Adjustment of communication style towards persons with disability (PwD).
- T – 1.8 Importance of active listening, importance of collaborating with colleagues, importance of promoting a positive and productive work environment.
- T – 1.9 Leadership skills – teamwork, taking initiatives, patience and motivation.
- T – 1.10 Ways to avoid and rectify commonly occurring errors.

Practical Content:

- P – 1.1 Practice of oral communication in proper way with others at the workplace.
- P – 1.2 Demonstration of different styles of communication required at different circumstances – with colleagues, with executives, with customers.
- P – 1.3 Demonstration of adaptation of communication styles to effectively interact with individuals of different genders and persons with disabilities (PwDs).
- P – 1.4 Practice of different ways of written communication required at the workplace.
- P – 1.5 Practice of interpreting a job card - understanding the task or work assignment, including its specific requirements, instructions and any associated deadlines or priorities.

- P – 1.6 Writing a report to supervisor to send work status.
- P – 1.7 Writing a report to supervisor to send work completion report.
- P – 1.8 Illustration of routine maintenance procedure of equipment and machinery at the workplace.

Tools & Equipment needed: See Annexure - 1

Module No. 2: Occupational safety

Outcome: Identify common safety hazards specific to auto workshops and apply appropriate safety measures to ensure a safe working environment.

Theory Content:

- T – 2.1 Importance of employee health, hygiene at workplace, cleanliness and tidiness at workplace.
- T – 2.2 List of potential workplace related risks and hazards - their causes and preventions.
- T – 2.3 Outline of organizational structure to be followed to report about health, safety and security breaches to the concerned authorities.
- T – 2.4 Methods to keep the work area clean and tidy.
- T – 2.5 Significance of conforming to basic hygiene practices such as washing hands, using alcohol-based hand sanitizers or soap etc.
- T – 2.6 Need of Personal Protective Equipment (PPE) for maintaining health and hygiene at workplace, types and use of PPE.
- T – 2.7 Importance of Mental Health of the employee at the workplace.
- T – 2.8 Stress and anxiety – nature, ways to deal at workplace.
- T – 2.9 Need for maintenance of a proper balance between team and individual goals.
- T – 2.10 Significance of completing a scheduled work within stipulated time – time management.
- T – 2.11 Importance of conserving electricity, common practices to be followed at the workplace for conserving electricity.
- T – 2.12 List of potential pollutants at the workplace – their sources at the workplace, effects, ways to minimize pollutants.
- T – 2.13 Waste Management – Need, sources of waste at workplace.
- T – 2.14 5S guidelines for waste management - Sort, Set in Order, Shine, Standardize and Sustain.
- T – 2.15 Segregation of waste – Need, Importance, different categories of waste (dry, wet, recyclable, non-recyclable etc.)
- T – 2.16 Need of usage of different colour bins for different types of waste.
- T – 2.17 Waste disposal - difference between recyclable and non-recyclable waste, proper ways of disposing both types of waste.
- T – 2.18 Significance of optimize use of resources at the workplace.

Practical Content:

- P – 2.1 Practice of application of basic first aid procedure during emergencies.
- P – 2.2 Practice of application of basic housekeeping practices to ensure that the work area is clean, such as mopping spills and leaks, cleaning grease stains etc.
- P – 2.3 Perform routine cleaning of tools, equipment and machines.
- P – 2.4 Illustrate various techniques for checking malfunctions in the equipment as per Standard Operating Procedure (SOP).
- P – 2.5 Demonstration to evacuate the workplace in case of an emergency.

- P – 2.6 Exercise sanitization and disinfect one's work area.
- P – 2.7 Display the correct way of wearing and removing PPE such as face masks, hand gloves, face shields, PPE suits, etc.
- P – 2.8 Demonstration of the correct procedure of washing hands using soap and alcohol-based hand rubs.
- P – 2.9 Demonstration of segregation of waste into dry, wet, recyclable, non-recyclable etc.
- P – 2.10 Demonstration of different waste disposal techniques.
- P – 2.11 Demonstration the usage of fire extinguisher showcasing the correct techniques for handling, activating, and aiming the extinguisher at the base of the fire.
- P – 2.12 Demonstration of appropriate social and behavioral etiquette (greeting and meeting people, spitting/coughing/sneezing, etc.).

Tools & Equipment needed: See Annexure - 1

Module No. 3: Handling and Maintenance of tools and equipment

Outcome: Identify, use and take care of tools and equipment.

Theory Content:

- T – 3.1 Classification of hand tools required at workplace – measuring tools, marking tools, holding tools, striking tools, metal cutting tools, sharpening and grinding tools etc.
- T – 3.2 List of pneumatic and special purpose tools required at workplace – pneumatic drill, torque wrench etc.
- T – 3.3 Construction, use, functions and types of marking, measuring, testing and cutting tools used at automotive workshop such as calipers, hammers, V- blocks, vices, hacksaws, chisels, files, pliers, wrenches, spanners etc.
- T – 3.4 Type, uses and working principles of measuring instruments like micrometers, vernier calipers, bevel protractor etc.
- T – 3.5 Gauges of inspection - purpose and use of different gauges such as feeler gauge, dial bore gauge, thread gauge, plug and ring gauges etc.
- T – 3.6 Joining and fastening devices – Permanent, semi-permanent and temporary fastening devices, different types of fasteners and their functions.
- T – 3.7 Different types of Material Handling devices for shifting, loading and unloading.
- T – 3.8 Screw jacks – their working principles and use.
- T – 3.9 Chain pulley blocks – their working principles and use.
- T – 3.10 Lifts and hoists for lifting purposes – working principles and main constructional features
- T – 3.11 Special precaution in the handling of heavy equipment, removal and replacement of heavy parts.
- T – 3.12 Routine cleaning, maintenance and storing of tools.

Practical Content:

- P – 3.1 Practice of hacksawing metal pieces.
- P – 3.2 Practice of rough and smooth filing to produce flat and round surfaces.
- P – 3.3 Practice of measuring lengths and angles using proper tools.
- P – 3.4 Practice of inspecting surfaces, bores, diameters etc. using proper gauges and tools.
- P – 3.5 Practice of chipping operation with flat chisel and grooving with cross cut chisel.
- P – 3.6 Practice of drilling operation using hand drill and bench drilling machine.
- P – 3.7 Practice of hand grinding of different types of tools such as chisels, drill etc.
- P – 3.8 Practice of scraping operation using different types of scrapers including power scrapers.

- P – 3.9 Practice of welding operation – simple gas welding, arc welding and flame cutting.
- P – 3.10 Practice of soldering and brazing of ferrous and non-ferrous metals.
- P – 3.11 Practice of replacement of nuts and bolts, studs, gaskets etc.
- P – 3.12 Practice of assembling different components with nuts, keys, screws etc.
- P – 3.13 Practice of collecting and arranging the tools, equipment, accessories and materials from the store.
- P – 3.14 Demonstration of the ways to check the tools, equipment, accessories and materials before use.
- P – 3.15 Practice the steps to clean the tools and equipment after completion of work.
- P – 3.16 Demonstration of standard procedure for storage of tools and equipment after completion of work.

Tools & Equipment needed: See Annexure - 1

Module No. 4: Vehicle cleaning and washing

Outcome: Demonstrate and perform the steps to clean and wash a vehicle.

Theory Content:

- T – 4.1 Standards and procedures to be followed during vehicle cleaning and washing process.
- T – 4.2 List of the various parts of the vehicle to be cleaned.
- T – 4.3 Tools, equipment, accessories and materials required during vehicle cleaning and washing work.
- T – 4.4 Procedure of collecting appropriate material, tools & equipment from the store.
- T – 4.5 Procedure to be followed to inform the supervisor in case of any malfunctions/discrepancies in tools, equipment and materials.
- T – 4.6 Importance of checking customer belongings before cleaning and washing the vehicle.
- T – 4.7 Procedure of collecting instructions from the supervisor regarding washing and cleaning requirements.
- T – 4.8 Documentation to be maintained for washing and other treatments performed on the vehicle.
- T – 4.9 Procedure of rinsing the vehicle to remove loose dirt and debris.
- T – 4.10 Procedure of cleaning the wheels and tyres.
- T – 4.11 Correct method/technique for washing the engine compartment.
- T – 4.12 Importance of following OEM SOPs for washing and cleaning of various segment and surfaces of the vehicle.
- T – 4.13 Procedure of cleaning the windows and mirrors.
- T – 4.14 Procedure of application of wax or sealant to protect the vehicle's paint.
- T – 4.15 Procedure of cleaning the interior of the vehicle – vacuum the carpet seats and floor mats, wipe down the dashboard and door panels etc.
- T – 4.16 Special care to be taken while rinsing and drying the vehicle.
- T – 4.17 Methods for disposing off waste material and scrap.
- T – 4.18 Safety, health and environmental policies and regulations while working in pits/under vehicles

Practical Content:

- P – 4.1 Demonstration of the standard operating procedure to use tools, equipment, accessories and materials required during cleaning and washing process.
- P – 4.2 Demonstration of appropriate ways of removing detachable items from the vehicle.
- P – 4.3 Practice the steps of mixing the cleaning solutions and other compounds as directed by the supervisor.
- P – 4.4 Make use of recommended ways to transport materials and equipment to and from the work-area using carts.

- P – 4.5 Demonstration to turn ON / OFF valves and regulate flow of water, air, steam, etc.
- P – 4.6 Make use of appropriate techniques to protect the vehicles against any damage during cleaning/washing.
- P – 4.7 Demonstration of cleaning and washing of various segments and surfaces of vehicle as per OEM recommended SOPs.
- P – 4.8 Practice of applying surface treatment to vehicle's interior and exterior surfaces.
- P – 4.9 Practice the recommended procedures for rinsing removable/detachable objects and drying them on suitable racks.
- P – 4.10 Make use of various techniques for rinsing and drying different parts of the vehicle using cloths, squeegees and air compressors.
- P – 4.11 Practice of cleaning the interior of the vehicle using vacuum cleaner etc.
- P – 4.12 Practice of applying wax to vehicle body surface.
- P – 4.13 Practice the steps of collecting debris and transferring it to a container using a shovel or a vacuum cleaner.
- P – 4.14 Employ different ways to clean the workshop area, platform and its surroundings after washing/cleaning of vehicle.

Tools & Equipment needed: See Annexure - 1

Module No. 5: Vehicle service, maintenance and repair

Outcome: Identify common vehicle components and support the operator in repair and maintenance of vehicle.

Theory Content:

- T – 5.1 List of major components of a vehicle.
- T – 5.2 Brief working principle of various components of vehicle such as engine, cooling system, braking system etc.
- T – 5.3 Manufacturer specifications and safety requirement with respect to components/aggregates of the vehicle.
- T – 5.4 Significance of reading and analyzing the job card with lead technician to plan servicing, maintenance and repair activities.
- T – 5.5 List of various sources of information required to assess service/repair requirements.
- T – 5.6 Tools, equipment and accessories required for checking deviation at the time of service, such as pressure indicators, pullers, special wrenches etc.
- T – 5.7 Importance of using appropriate spare parts and other material for service/maintenance such as grade of oil, lubricants, grease, etc.
- T – 5.8 Checklist of all services needs to be done during routine maintenance of a vehicle.
- T – 5.9 Symptoms of wear and tear which lead to replacement of components such as filters, belts, wipers, etc.
- T – 5.10 Symptoms of common faults, their causes and remedial procedures.
- T – 5.11 Precautions to be taken while servicing/repairing a vehicle to avoid any kind of damages.
- T – 5.12 Procedure of checking the braking system.
- T – 5.13 Procedure of checking wheels and tyres, tyre pressure.
- T – 5.14 Special precaution and care need to be taken during repair and maintenance procedure.
- T – 5.15 Documents need to be maintained for each procedure.

Practical Content:

- P – 5.1 Demonstration of test ride of a vehicle to assess service and repair requirements.
- P – 5.2 Demonstration of reading, analyzing and collecting data from job card.
- P – 5.3 Demonstration of proper handling and use of the general purpose tools as well as the special purpose tools.
- P – 5.4 Practice of checking the level of engine oil, checking the condition of oil – muddy in texture, dirty, draining off the oil, if required.
- P – 5.5 Demonstration of checking the oil filter and fuel filter – replace, if necessary.
- P – 5.6 Practice of checking the level and condition of other fluids in vehicle such as coolant, brake fluid etc.
- P – 5.7 Practice of checking the battery – charging, if necessary.
- P – 5.8 Practice of checking the tyre pressure with gauge – inflate, if necessary.
- P – 5.9 Practice of checking the tyres for wear and tear.
- P – 5.10 Practice of removing tyres from vehicle and put them back on.
- P – 5.11 Demonstration of checking brakes – replace brake pads, if required.
- P – 5.12 Practice of checking the air filters for clogging- - replace, if necessary
- P – 5.13 Demonstration of checking the spark plugs for any faults.
- P – 5.14 Demonstration of checking the cabin or ac filter, replace, if necessary.
- P – 5.15 Practice of cleaning, rinsing and drying components.
- P – 5.16 Demonstration of applying grease and lubricant in all appropriate places and components.
- P – 5.17 Demonstration of checking all lights, horn, wiper for proper working.
- P – 5.18 Demonstration of checking vehicle condition against the maintenance checklist and releasing vehicle only on completion of entire task.
- P – 5.19 Demonstration of documentation of all necessary records.
- P – 5.20 Demonstration of proper way of disposing waste and scrap materials.

Module No. 6: OJT

Outcome: Work in real job situation with special emphasis on basic safety and hazards in this domain

Practical Content:

Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 60 Hours.)

Module No. 7: Employability Skills**Key Learning Outcomes****Introduction to Employability Skills**

Duration: 1.5 Hours

After completing this programme, participants will be able to:

1. Discuss the Employability Skills required for jobs in various industries
2. List different learning and employability related GOI and private portals and their usage

Constitutional values - Citizenship

Duration: 1.5 Hours

3. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
4. Show how to practice different environmentally sustainable practices.

Becoming a Professional in the 21st Century

Duration: 2.5 Hours

5. Discuss importance of relevant 21st century skills.
6. Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
7. Describe the benefits of continuous learning.

Basic English Skills

Duration: 10 Hours

8. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
9. Read and interpret text written in basic English
10. Write a short note/paragraph / letter/e -mail using basic English

Career Development & Goal Setting

Duration: 2 Hours

11. Create a career development plan with well-defined short- and long-term goals

Communication Skills

Duration: 5 Hours

12. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette.
13. Explain the importance of active listening for effective communication
14. Discuss the significance of working collaboratively with others in a team

Diversity & Inclusion

Duration: 2.5 Hours

15. Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
16. Discuss the significance of escalating sexual harassment issues as per POSH act.

Financial and Legal Literacy

Duration: 5 Hours

17. Outline the importance of selecting the right financial institution, product, and service
18. Demonstrate how to carry out offline and online financial transactions, safely and securely
19. List the common components of salary and compute income, expenditure, taxes, investments etc.
20. Discuss the legal rights, laws, and aids

Essential Digital Skills

Duration: 10 Hours

21. Describe the role of digital technology in today's life
22. Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
23. Discuss the significance of displaying responsible online behavior while browsing, using

- various social media platforms, e-mails, etc., safely and securely
24. Create sample word documents, excel sheets and presentations using basic features
 25. utilize virtual collaboration tools to work effectively

Entrepreneurship

Duration: 7 Hours

26. Explain the types of entrepreneurship and enterprises
27. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
28. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
29. Create a sample business plan, for the selected business opportunity

Customer Service

Duration: 5 Hours

30. Describe the significance of analyzing different types and needs of customers
31. Explain the significance of identifying customer needs and responding to them in a professional manner.
32. Discuss the significance of maintaining hygiene and dressing appropriately

Getting Ready for apprenticeship & Jobs

Duration: 8 Hours

33. Create a professional Curriculum Vitae (CV)
34. Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively
35. Discuss the significance of maintaining hygiene and confidence during an interview
36. Perform a mock interview
37. List the steps for searching and registering for apprenticeship opportunities

Tools & Equipment needed: See Annexure - 1**Learning Outcome – Assessment Criteria:**

Module No.	Outcome	Assessment Criteria
1	Describe the role and responsibilities of a Car Washer and Helper Technician and use effective communication skill at workplace.	After completion of this module students will be able to: 1.1 Tell the role and responsibilities of a Car Washer and Helper Technician. 1.2 Explain the Standard Operating Procedures (SOP) to be followed for service, repair and maintenance of a vehicle. 1.3 Communicate, both verbal and written, with co-workers, customers, seniors and supervisors. 1.4 Adapt changes in communication style to express sensitivity to gender and persons with disabilities (PwD). 1.5 Explain routine maintenance procedure of equipment

Module No.	Outcome	Assessment Criteria
		and machinery at the workplace. 1.6 Report the progress and completion of work to supervisor.
2	Identify common safety hazards specific to auto workshops and apply appropriate safety measures to ensure a safe working environment.	After completion of this module students will be able to: 2.1 Tell the potential risks and hazards at workplace - their causes and preventions. 2.2 Observe safe working practices to avoid hazards at workplace ensuring personal safety and safety of others. 2.3 Make use of PPE and other safety equipment for specific task and work. 2.4 Observe stress and anxiety management techniques. 2.5 Apply basic housekeeping skills such as mopping spills and leaks, removing grease stains etc. 2.6 Show proper technique of using fire extinguisher in case of fire emergency. 2.7 Complete a specified work as per requirements within given timeline. 2.8 Segregate waste into different categories. 2.9 Dispose properly different types of waste at identifies location. 2.10 Sanitize and disinfect the workplace properly.
3	Identify, use and take care of tools and equipment.	After completion of this module students will be able to: 3.1 Identify, use and take care of all general purpose tools and special purpose tools required at workplace. 3.2 Measure lengths, angles, bore of cylinders and holes etc. using proper measuring tools. 3.3 Make use of different types of chisels for chipping operation and cutting grooves. 3.4 Drill holes in metals and sheet metals using both hand drill and bench drilling machine. 3.5 Join metal pieces by performing different joining processes such as arc welding, gas welding, soldering and brazing.

Module No.	Outcome	Assessment Criteria
		3.6 Perform grinding operation on different tools. 3.7 Assemble different components using nuts, screws etc. 3.8 Clean, rinse and dry tools and equipment at workplace.
4	Demonstrate and perform the steps to clean and wash a vehicle.	After completion of this module students will be able to: 4.1 Tell the steps to be followed during cleaning and washing a vehicle. 4.2 Operate and regulate equipment to turn ON/OFF and control the flow of air, water etc. 4.3 Perform regular washing of a vehicle using water and cleaning solution mixture. 4.4 Rinse and dry different components of vehicle. 4.5 Make use of vacuum cleaner to clean vehicle interior like the dashboard, floor mat etc. 4.6 Apply wax to vehicle body surface. 4.7 Clean the workplace and dispose waste in proper way.
5	Identify common vehicle components and support the operator in repair and maintenance of vehicle.	After completion of this module students will be able to: 5.1 Tell the list of checks needed to be done during routine maintenance of a vehicle. 5.2 Check engine oil, drain out used oil and pour fresh oil. 5.3 Replace oil filter, fuel filter, air filter and cabin or ac filter. 5.4 Remove tyres from a vehicle and refitting them to the vehicle. 5.5 Check braking system – check the brake shoes for wear. 5.6 Measure the tyre pressure and inflate it. 5.7 Remove the battery from the vehicle, check it and refit it to the vehicle. 5.8 Check and refill coolant, brake fluid etc. 5.9 Apply grease and lubricants to different components. 5.10 Do proper documentation of all necessary information after the maintenance procedure.

Annexure - 1**List of Tools, Equipment & materials needed for 30 Trainees (Practical)**

Sl No	Items Name	Specification	Qty.
1	Whiteboard/ Markers	4ft × 6ft	1
2	Laptop	Intel Core i5 processor, Windows 10, 8GB RAM, 500 GB HDD	1
3	Projector	1920 × 1080 resolution, Front projection, wall or ceiling mounted, manual focus adjustment, with USB ports	1
4	Lever Type Grease Gun		3
5	Chisel- Drop Forge		3
6	Oil Can - Wesco Type		3
7	Centre Punches		3
8	Two Leg Puller		3
9	Hammer Ball Peen	0.75 kg	3
10	Single arm torque wrenches		3
11	Wrenches	350 mm, Pipe wrench	5
12	Cross Wheel Spanner		3
13	Vernier Calipers		3
14	Micrometer		3
15	Digital Multimeter	Digital Multi meter, dc: 200 mV – 1000V, ac: 200 mV – 600V	3
16	Hacksaw frame With Blade		5
17	Tyre Pressure Gauge		3
18	Hydro meter		2
19	Plastic Hammer		3
20	Spark Plug Sockets		5
21	Magnetic Pickup Tool		1
22	Hydraulic jack		3
23	Air Compressor and Hoses	30 hp	1
24	Tyre Inflator		2
25	Battery Charger		2
26	Screw Extractor Set		3
27	Wheel Chocks		3
28	Two Post lift		1
29	Brake Bleeder		3
30	Tyre Changer (Trufit)		5
31	Pneumatic Tools		1
32	Diesel Engine mounted on stand		1
33	Petrol Engine mounted on stand		1
34	Exhibits- Clutch system		1
35	Gear Box mounted on stand		1
36	Propeller shaft		1
37	Differential mounted on stand		1
38	Starter Motor		1
39	Alternator		1
40	Steering System		1
41	Air Assisted Brake System		1
42	Brake System Hydraulic		1
43	Fuel Pump		1
44	Water Pump		1
45	Radiator		1
46	Fuel Filter		1

Sl No	Items Name	Specification	Qty.
47	Oil Filter		1
48	Wall charts on various engine systems	Standard size	
49	Tool Board		
50	First aid Kit	With standard accessories	3
51	Personal protective equipment		30
52	Fire extinguisher	Temp range: -30°C to 60°C, Charge – 6kg, Height – 550 mm, Dia. – 160mm	3
53	Waste container		5
54	Dust pan		5
55	Liquid soap		5

Marks Distribution:

Outcome	Outcome Code	Total Th marks	Total Pr marks
Describe the role and responsibilities of a Car Washer and Helper Technician and use effective communication skill at workplace.	AUT/0408/OC1	10	110
Identify common safety hazards specific to auto workshops and apply appropriate safety measures to ensure a safe working environment.	AUT/0408/OC2	30	90
Identify, use and take care of tools and equipment.	AUT/0408/OC3	40	130
Demonstrate and perform the steps to clean and wash a vehicle.	AUT/0408/OC4	30	150
Identify common vehicle components and support the operator in repair and maintenance of vehicle.	AUT/0408/OC5	40	170
Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT).	AUT/0408/OC6	0	150
Employability Skill-60 Hrs	DGT/VSQ/N0102	50	0