



MASTER COPY
Gujarat Council of Vocational Training
Gandhinagar



1. Name of Course:

Car Detailing & Quick Car Service

N.C.O. No. for Skills Covered:

(Please refer National Classification of Occupations -2004 available on www.dget.nic.in)

2. Engineering OR Non-engineering: **Engineering**3. No. of students per batch: **10**4. Duration in Hours. : **176 hrs.**5. Duration in Month: **2 months @ 22 hours/Week.**

6. Examination Scheme:

No.	Name of Subject	Teaching Hours during full course.	Maximum Marks. (Excluding Sessional)	Minimum Marks required for Passing (Excluding Sessional).	Sessional Marks if any.
Subject-1	Trade Theory	36 Hrs	100	40	
Subject-2	Trade Practical	140 Hrs	300	180	

7. Entry qualification for Trainee:

Minimum entry qualification (Essential):	1. 8 th Pass with 1 year Automobile experience or 2. 10 th pass or 3. ITI certificate in Automobile Sector
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8. Minimum qualification for Trainer:

Minimum qualification (Essential):	1. Diploma in Automobile Engineering or 2. Diploma in Mechanical/Electrical Engineering with automobile industry experience
Desirable:	1. Diploma in Automobile Engineering or 2. Diploma in Mechanical/Electrical Engineering with automobile industry experience

T. Bhavsar



S. Bhatt



Gujarat Council of Vocational Training Gandhinagar



9. Syllabus Committee Member:

Sr.	Name	Organization	Designation	Technical Qualification	Experience in Years	Signature
1.	A.K MAHETA	CET - Gujarat	DY.DIRECTOR	D.A.E	36	
2.	T. N BHAVSAR	ITI, RADHANPUR	PRINCIPAL	D.A.E	23	
3.	C. B. ZALA	ITI, PATAN	PRINCIPAL	D.A.E	22	
4	A. N. AGRAVAT	ITI, BHAVNAGAR	S.I. C.o.E Auto (ADVANCE)	D.A.E	25	
5	A. S. TRIVEDI	ITI, RAJKOT	S.I - M.D	D.A.E	23	
6	PARAS SHAH	ITI, TARSALI, (VADODRA)	S.I. C.o.E Auto (ADVANCE)	D.A.E	21	
7	K. K. TRIVEDI	ITI, PALANPUR	S.I - MD	D.A.E	7	
8	H. B. PRAJAPATI	ITI, PATAN	S.I - MD	D.A.E	7	
9	J. N. CHANDARANA	VOLGA AUTO POINT, VADODARA	PROPRIETOR	D.A.E.	23	
10	AMIT PATEL	SHREE GOPINATHJI AGENCIES, VADODARA	SERVICE MANAGER	D.A.E.	25	
11	JAIJO ANTONY	ASTER MOTORS PVT. LTD. VADODARA	WORKS MANAGER	D.A.E.	8	

10. Skill achievement of trainee:

The trainee, after successful completion of training, will have following skills:

The successful candidate would be able to

1. Wash and clean entire car with water jet and steam vacuuming.
2. Lubricate all greasing points.
3. Change tyres and rotate wheels.
4. Do wheel balancing and wheel alignment.
5. Degrease and decarbonize engine.
6. Do underbody anti rust coating and glass coating.
7. Do vinyl treatment, upholstery cleaning and air condition duct treatment.
8. Do head light restoration, cavity treatment and paint restoration.
9. Polish car with wax and silicon.



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11. Approximate cost of Tools
/ Equipments / Machinery for
starting one batch of the course:

Rupees 1652000

Reference Year
2013

12. Area required for practical / Workshop for one batch.

42 Sq. Meter

13. Minimum Power connection required

01 K.W.approx

14.1 No of items in Standard list of Machinery:

09

14.1.1. Page no. from 04 to 04.

14.2 No of items in Standard list of Shop outfit:

54

14.2.1. Page no. from 05 to 07.

14.3 No of items in Standard list of Trainee Toll-Kit :

06

14.1.1. Page no. from 08 to 08.

***** FOR OFFICIAL USE *****

Approved by GCVT in ~~Governing Body~~ meeting on:

06-09-2013

Syllabus implemented w.e.f. admission session :

Next session

Revision History :

1. Revision No..... Revision Date.
2. Revision No..... Revision Date.
3. Revision No..... Revision Date

J. Bhavsar

Shah

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Standard List of **Machinery - Equipment** / Shop-outfit / Trainee Toolkit for Trade of
Car Detailing & Quick Car Service

Sr. No.	Description of Item with detailed specifications	Item type i.e. Machinery / Equipment OR Shop Outfit OR Trainee Toolkit	Quantity Required per one Batch of Students	Quantity Required per one Batch of Students for Instructor	Total Quantity Required (Total of previous two columns)
1.	Wheel Aligner with accessories	Machinery	0	01	01
2.	Wheel Balancer (for car) with accessories	Machinery	0	01	01
3.	Tyre Changer (for car) with accessories	Machinery	0	01	01
4.	Nitrogen Inflater	Machinery	0	01	01
5.	Air Compressor (11 bar)	Machinery	0	01	01
6.	Hi-pressure washer equipment with underneath cleaning attachments	Machinery	0	01	01
7.	Two post electro hydraulic lift (4 Tonnes)	Machinery	0	01	01
8.	Wet and dry vacuum machine with accessories	Machinery	0	01	01
9.	Steam jet cleaner	Machinery	0	01	01



T. B. Sharma

Sale



Standard List of Machinery - Equipment / **Shop-outfit** / Trainee Toolkit for Trade of
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1	Tyre pressure gauge with accessories	Shop Outfit	0	01	01
2	Pipe Wrench 20 cm	Shop Outfit	0	01	01
3	Metal horse (Stand) for car	Shop Outfit	0	04	04
4	Wheel chokes	Shop Outfit	0	04	04
5	Wheel aligner bay/ramp/pit	Shop Outfit	0	01	01
6	Fixed head torque wrench 20 - 150 Nm	Shop Outfit	0	01	01
7	Fixed head torque wrench 70 – 350 Nm	Shop Outfit	0	01	01
8	Pneumatic wrench (for socket spanner) 2.5 kgm torque	Shop Outfit	0	01	01
9	Pneumatic wrench (for socket spanner) 3.5 kgm torque	Shop Outfit	0	01	01
10	Socket set with 50 nos. screw driver/ square key/hex key/star key bits along with spinner handle, T-handle and extension bar(Metric)	Shop Outfit	0	01	01
11	Socket spanner set (6 to 32 mm, 12 divisions) along with T-handle, universal socket, L-handle, ratchet and extension bar	Shop Outfit	02	0	02
12	Socket spanner set (6 to 32 mm, 6 divisions) along with T-handle, universal socket, L-handle, ratchet and extension bar	Shop Outfit	0	01	01
13	Screw driver (Stubby) 5 cm	Shop Outfit	0	01	01
14	Philips screw driver (Stubby) 5 cm	Shop Outfit	0	01	01

T. Shivan





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15	Screw driver 10 cm	Shop Outfit	02	01	03
16	Philips screw driver 10 cm	Shop Outfit	02	01	03
17	Prick punch 15 cm	Shop Outfit	02	01	03
18	Long nose pliers (20 cm) with safety grips	Shop Outfit	01	01	02
19	Diagonal cutting pliers (20 cm) with safety grips	Shop Outfit	01	01	02
20	Wire strippers (20 cm)	Shop Outfit	0	01	01
21	Circlip pliers (Inner) 20 cm	Shop Outfit	02	01	03
22	Circlip pliers (Outer) 20 cm	Shop Outfit	02	01	03
23	Hand file 20 cm second cut	Shop Outfit	0	01	01
24	Rasp cut file 30 cm	Shop Outfit	0	01	01
25	Needle file (set of 12 - hand, flat, knife, round, half round, square, three square, crossing round edge joint, slitting, warding, barrette)	Shop Outfit	0	01	01
26	Ball pein hammer 0.5 Kg	Shop Outfit	02	01	03
27	Grease gun (250 gm)	Shop Outfit	0	01	01
28	Nylon faced hammer	Shop Outfit	02	01	03
29	Double ended spanner 6-32 mm (set of 12)	Shop Outfit	02	01	03
30	Ring spanner 6-32 mm (set of 12)	Shop Outfit	02	01	03
31	Curved jaw grip wrench 18 cm	Shop Outfit	01	01	01
32	Hydraulic puller cum separator set	Shop Outfit	0	01	01
33	Bench vice (Jaw width 12.5cm, Opening 17cm)	Shop Outfit	0	02	02
34	2 Drawer work bench (W 150cm x D 60cm x H 85cm)	Shop Outfit	0	01	01
35	5 Drawer cabinet & shelved workbench (W 130cm x D 50cm x H 85cm)	Shop Outfit	0	01	01
36	5 Drawer roller cabinet with bottom compartment	Shop Outfit	02	0	02
37	Tool cabinet (180cm high x 90cm wide x 50cm depth) with 5 rack (3 part per rack)	Shop Outfit	0	01	01

T. Bhanu

Spel





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38	Cross type car wheel spanner	Shop Outfit	02	0	02
39	Steel rule 30cm	Shop Outfit	02	01	03
40	Electric orbital polisher 3" (Orbit ϕ 2mm)	Shop Outfit	0	01	01
41	Electric polisher 5" (Single axle)	Shop Outfit	0	01	01
42	Electric orbital polisher 6" (Orbit ϕ 5mm)	Shop Outfit	0	01	01
43	Electric orbital polisher 5" (max. 2200 rpm) (Orbit ϕ 3mm)	Shop Outfit	0	01	01
44	Air blow drying gun	Shop Outfit	0	01	01
45	Spray gun with attachment for spray tube for cavity protection	Shop Outfit	0	01	01
46	Spray gun for low viscosity paste spray (for underbody antirust coating)	Shop Outfit	0	01	01
47	Dial gauge with universal magnetic stand (Least count 0.01mm)	Shop Outfit	0	01	01
48	Quick lift trolley jack 1 tonne (Hydraulic)	Shop Outfit	0	02	02
49	Mobile waste oil drainer	Shop Outfit	0	01	01
50	Electric hand grinder	Shop Outfit	0	01	01
51	Panel protector (magnetic) for fender, bonnet, front grill and door	Shop Outfit	03 sets	0	03 sets
52	Pneumatic line(10m long) with 3 drop points (Each with FRL unit)	Shop Outfit	0	1	1
53	Tray 45cm x 30cm x 6cm high	Shop Outfit	0	5	5
54	Oil can with flexible outlet tube (250 ml)	Shop Outfit	0	01	01





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1.	Screw driver 15 cm	Trainee Tool Kit	10	01	11
2	Philips screw driver 15 cm	Trainee Tool Kit	10	01	11
3	Combination pliers (20 cm) with safety grips	Trainee Tool Kit	10	01	11
4	Ball pein hammer 0.75 kg.	Trainee Tool Kit	10	01	11
5	Double ended spanner 6-17 mm (set of 6)	Trainee Tool Kit	10	01	11
6	Ring spanner 6-17 mm (set of 6)	Trainee Tool Kit	10	01	11

T. Bhasan

S. S.





SYLLABUS FOR Car Detailing & Quick Car Service

Week No.	Theory	No. of Hours	Practical	No. of Hours	Remarks
1	-Introduction of trade and opportunity -Safety and responsibility at work place -Information of hand tools and power tools	4 hrs 30 min.	-Demonstration of hand / power tools -Demonstration of machinery	17 hrs 30 min	
2	-Brief information of steering system -Brief information of vehicle underneath	4 hrs 30 min.	-Servicing and inspection of steering system -Washing and greasing of vehicle underneath	17 hrs 30 min	
3	-Brief information of hub assembly -Types of tyre and rim -Tyre wear pattern and tyre rotation -Effect of centrifugal force on wheel	4 hrs 30 min.	-Hub bearing play adjustment -Tyre removing and refitting -Tyre rotation -Wheel balancing	17 hrs 30 min	
4	-Steering geometry, its necessity and effects -Effect of wrong alignment -procedure and precautions for wheel alignment	4 hrs 30 min.	-Preparation for wheel alignment and primary practice of wheel alignment -Final wheel alignment	17 hrs 30 min	
5	-Car washing procedure, its gentle consumables and precautions -Engine degreasing procedure -Underbody damage and prevention of damage -Rubbing / cleaning pad or cloth	4 hrs 30 min.	-Washing of car body -Washing of car underneath -Engine degreasing -Underbody antirust coating	17 hrs 30 min	
6	-Car interior, its material and life improvement techniques -Probable damage of interior	4 hrs 30 min.	-Vinyl treatment -Upholstery cleaning -Interior cleaning by dry /	17 hrs 30	

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	-Freshness restoration techniques for car compartment		steam vacuuming -Air condition duct treatment	min	
7	-Effect of wear / weather on glass ie. head light, wind shield -Rubbing and polishing compound -Car paint, its types and layers	4 hrs 30 min.	-Head light restoration -Glass coating -Wind shield buffing -Paint scratch removing / rubbing -Polishing with wax / silicon	17 hrs 30 min	
8	-Cavities of car body and possibilities of rusting -Carbon deposition and sludge formation in engine -Engine decarbonizing and fuel system cleaning -Industrial visit	4 hrs 30 min.	-Cavity treatment -Quick decarbonizing of engine -Fuel system cleaning -Industrial visit	17 hrs 30 min	

T. Bhawan

S. G.

