

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI -51

1	Name of Syllabus	C.C.IN Motor Driving (306104)																																									
2	Max. Nos of Student	25																																									
3	Duration	6 Month																																									
4	Type	Part Time																																									
5	Nos Of Days / Week	6 Days																																									
6	Nos Of Hours /Days	4 Hrs																																									
7	Space Required	Workshop = 200 Sq. feet Class Room = 200 Sq. feet TOTAL = 400 Sq. feet Other Requirements - To train the candidates in motor driving the following infrastructure are required. 1. Institutes should obtain "Motor Driving School" license from road transport authority by fulfilling their terms and conditions.																																									
8	Entry Qualification	SSC Appeared																																									
9	Objective Of Syllabus/ introduction	To become a four wheeler driver with basics in maintenance of vehicles.																																									
10	Employment Opportunity	Self Employment Can drive own vehicle (RTO licenses is Necessary) Take loan and drive on commercial basis.																																									
11	Teacher’s Qualification	HSC VOCATIONAL/ ITI MMV/D.M.E./D.A.E																																									
12	Training System	<table><tr><th colspan="4">Training System Per Week</th></tr><tr><td>Theory</td><td>Practical</td><td colspan="2">Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td colspan="2">24 Hours</td></tr></table>							Training System Per Week				Theory	Practical	Total		6 Hours	18 Hours	24 Hours																								
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THEORY PAPER – I - VEHICLES RULE, INTRODUCTION TO ENGINE & OTHER SYSTEM

1. Motor vehicle Act,
2. Road signs and signals brief description and function of each component.
3. Types of engines. 1) Two stroke 2) Four Stroke
4.
 - a) Cooling system, use of coolant/soft water.
 - b) Checking hose pipes and its effect.
 - c) Lubrication systems type and grade.
 - d) Common troubles and its remedies.
 - e) Types of steering systems, common troubles and remedies.
5.
 - a) How to increase or decrease torque without changing the r.p.m of engine.
 - b) Selection of gears as per the speed
6. Precaution to be taken when driving in reverse approaching main road from bypass lane.
7. In congested roads safety precautions to be taken.
8. Knowledge to read road maps. Destination of mile stones in local language.
9. Distance of location of hospitals, petrol bunk, hotels, police station. Signals for overtaking, permit the vehicle to pass fundamental knowledge of first aid.
10. Selection of gears while climbing signals and precaution while climbing and coming Down on GHAT which vehicle should pass in opposite direction vehicle?
11. Selection of gears, braking distance, speed of vehicle, how to stop opposite vehicle coming in opposite direction. Stopping distance as per, M.V act speed and distance.
12.
 - 1) Taking to the clients so as to get the history of the vehicle.
 - 2) Preparation of preliminary estimates, final costs, billing, and maintenance of accounts registers
 - 3) Information on banking procedure and services.
 - 4) Information on Government laws – with reference to registration, sales income, tax, excises duty etc.
 - 5) Maintaining inventory books for spare parts and vehicle under repairs etc.
 - 6) Information of various financing institution – M.S.F.C.M.S.I.D.C., N.S.I.D.C., R.D.C. S.I.S.I. etc
 - 7) Sources of information for spare parts and methods of keeping track of prices, rates and commercial practices.
 - 8) Budgeting financial planning and saving.
 - 9) Systems of wage payment.

PRACTICAL – I, INTRODUCTION TO ENGINE AND MOTOR DRIVING

1. Introduction Motor Driving course,
2. Important of safety driving,
3. Location of vehicle Components, locking and unlocking device manual and central locking. Manual electronic
4. Categories of Vehicles;
5. Motor Vehicle Rules;
6. Road Signs
7. Safe Driving; Environment Pollution ;
8. Insurance ; Road Transport
9. Study the engine (petrol)
10. Study the engine (DIESEL)
11. Skills to be imparted Check the following before starting
 - 1) Check water level oil break, fluid air on 4 wheels and spare wheel.
 - 2) Cleaning vehicle
 - a) body, wind screen, glasses flour and wheels.
 - b) Wiping or dusting seat covers.
 - c) Dash board.
 - d) Check lights, horn, steering and its locking system.

PRACTICAL – II, DRIVING AT PLANE ROAD, MARKET PLACES, GHAT AND HARD TOP ROAD

A. DRIVING AT PLANE ROAD, MARKET PLACES.

1. Steering control on ground.
2. Use and application of controls as accelerator, break, clutch, gear level.
3. Driving with full controls on ground of engine practice.
4. Observing instruments on panel board as charging, temperature, oil pressure gauge using signals.
5. Reverse driving on ground
 - a) Straight b) Bend road,
6. Constant and speed of vehicle.
7. Driving in narrow lanes,
8. Driving in congested roads,
9. Driving in marketplaces.
10. Parking in main and congested parking lots.
11. Driving on national highways during day
12. Driving on national highway during night & use of dipper
13. Repairing vehicle for long distance tools to be taken along with the vehicle.

B. DRIVING AT GHAT AND HARD TOP ROAD.

1. Ghats driving: uphill and downhill U turn, hair pin drive in day practice
2. Ghats driving: uphill and downhill U turn, hair pin drive in night practice
3. Ghats driving: uphill and downhill U turn, hair pin drive in rainy seasons
4. Driving on loose Soil hardtop road,
5. Driving on rubbed road,
6. Driving on low and narrow bridge
7. Practice of braking on hard top road
8. Practice of braking on loose soil
9. Preventive maintenance radiator water , inflation in tyres
10. periodical maintenance's cleaning filters, cleaning spark plug, checking loose connection wire joints, hose pipe, fan belt,
11. Tyre rotation practice & tyre inflation checking removing stones from tyre threads
12. Testing and taking learning license and R.T.O. Procedure
13. Testing and taking Permanent license and R.T.O. Procedure

List of Tools, Equipments &Machineries

- 1) A vehicle should be provided in the institutes for providing learning Practice.
- 2) That vehicle should be arranged with two sets of clutch, break and accelerator.
- 3) Tool Kit

Reference books:

- 1) Hand book on driving (Transport Dept.)
- 2) Central motor vehicle act rules (Alt publication)

**प्रकल्प अहवाल
(PROJECT REPORT)**

व्यवसायाचे नांव :-

विद्यार्थ्याचे नांव :-

कोर्स नांव :-

- १) ओळख
- २) बाजारपेठ
- ३) मुलभूत सुविधा
- ४) निर्मिती प्रक्रिया
- ५) अंदाज
 - a) मनुष्यबळ
 - b) वर्षात किती दिवस काम चालेल/मिळेल
 - c) श्रमिक दिवस
 - d) निर्मिती क्षमता
- ६) भांडवली खर्च
यंत्रसामुग्री, सिव्हील वर्क, इलेक्ट्रीफिकेशा इत्यादी
- ७) प्रत्यक्ष कार्यवाहीचा खर्च

तपशिल	संख्या	दर	रक्कम
येथे कच्चा माल, वीज, देखभाल दुरुस्ती व्यवस्थापन व विक्री व्यवस्थापन खर्च, भाडे इत्यादीचा समावेश करावा.			

८) बँकेचे कर्ज :-

येथे भांडवली खर्च, खेळत भांडवल, अनुदान इत्यादी बाबींचा विचार करावा.

९) आवक :-

तपशिल	संख्या	दर	रक्कम
येथे कच्चा माल, वीज, देखभाल दुरुस्ती व्यवस्थापन व विक्री व्यवस्थापन खर्च, भाडे इत्यादीचा समावेश करावा.			

१०) वित्तीय विश्लेषण

बाब	वर्ष ०	वर्ष १	वर्ष २	वर्ष ३
आवक				
खर्च				
१) कार्यवाहीचा खर्च				
२) मजुरीचा खर्च				
एकूण				
निव्वळ नफा				

११) कच्चा मालाचे पुरवठादार - १)----- २)----- ३)-----

१२) यंत्रसामुग्रीचे पुरवठादार - १)----- २)----- ३)-----

१३) प्रकल्प अहवाल संदर्भासाठी पुस्तके :-

विहित प्रकाशन, औरंगाबाद

वितरक :- शशी, ३३, पन्नालाल नगर, औरंगाबाद ४३१ ००५.