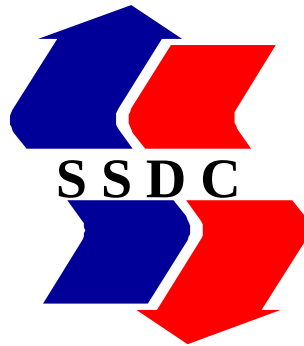


SINGAPORE SAFETY DRIVING CENTRE LTD



MOTORCAR TRAINING CONTENT

MANUAL

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MANUAL TRANSMISSION MOTORCAR TRAINING CONTENTS	
STAGE 1 CONTENTS	
SUBJECTS	DETAIL SUBJECTS
1. Familiarisation and pre-operatives procedures 2. Engine starting and stopping, pedals activity, gear changing (co-ordination dry practice) 3. Moving off and stopping Minimum requirement	a) Introduction and getting in and out of the vehicle b) Explanation of devices and controls c) Driving posture and seat adjustment d) Adjustment of mirrors and its functions a) Switch off and restart the engine b) Pedals introduction, accelerator, brake and clutch c) Gear changing procedures a) Understanding and feel the accelerator when stepping (engine sound) b) Understanding the clutch biting point and how to release (using knee movement) c) Moving off with the accelerator and clutch d) Stopping the vehicle with clutch and brake Able to move off with acceleration and stop the vehicle without stalling (correct footwork co-ordination)
4. Steering Part I & Gear Shifting (2 nd gear) Minimum requirement	a) Feeling the position of the wheel b) Steering control on straight road and negotiating bend / Eye Point c) How to turn and return the steering wheel (Hand over hand method) d) When to turn and return the steering wheel e) Procedure for changing gear Able to turn and return smoothly within lane Able to change gear with proper co-ordination without zig-zagging
5. Braking techniques & Gear Shifting (3 rd gear) Minimum requirement (Circuit & Road)	a) Understanding engine brake b) Reducing speed with engine braking and apply correct footwork c) Stopping at an indicated line d) High/ Low-speed braking e) Understanding different speed/gear on the road f) Shifting gear with acceleration while driving on the road Able to reduce speed and stop smoothly with engine braking Able to shift gear up and down smoothly on the road Able to select correct gears for different speed/traffic conditions and pass intersections with proper procedures
6. Blind spot / Stopping and moving off from the kerbside Minimum requirement (Circuit & Road)	a) Vehicle's blind area b) Understanding what is blind spot c) Know when to check, how to check and where to check d) Stopping and moving off from the kerbside Able to check and understand what is blind spot Move off/stop at kerbside with safety procedures
7. Basic lane change procedure Minimum requirement (Road)	a) Lane change procedure with blind spot b) Procedures for overtaking Able to overtake and change lane with safety procedures

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8. Steering (Part II) <i>Minimum requirement (Circuit & Road)</i>	a) Understanding wheel trace differential b) Negotiating corners and bend c) Sharp left turns and filter lanes • <i>Able to negotiate bends/corners without mounting/striking kerb</i>
9. Speed adjustment <i>Minimum requirement (Circuit & Road)</i>	a) Accelerator control b) Brake control c) Clutch control d) Gear shifting • <i>Able to adjust speed on straight roads and bends</i>
10. Traffic rules <i>Minimum requirement (Circuit & Road)</i>	a) Understanding what is Lane discipline b) Traffic light and traffic sign c) Different types of pedestrian crossing d) Passing through an intersection and its priority e) Yellow box • <i>Able to understand /drive according to Traffic rules and regulations</i>
11. Slow speed control/ basic right turns <i>Minimum requirement (Circuit & Road)</i>	a) Half-clutch low speed control b) Feeling the length and width of the vehicle c) Vehicle positioning d) Safety checks • <i>Able to control the slow speed movement</i> • <i>Able to position correctly before turning, turn smoothly without wide/sharp turning and with proper safety procedures</i>
12. Driving on a slope <i>Minimum requirement (Circuit & Road)</i>	a) Stopping and moving off procedures on the slope (road) b) Usage of correct footwork procedure before moving off c) Ability to recognise a road slope and apply the correct technique (Handbrake method & using the half-clutch method) • <i>Able to select correct gears when driving up/down a slope and to stop and move off from the slope with the correct technique</i>
13. Review prior lessons <i>Minimum requirement (Circuit & Road)</i>	a) Correct moving off technique b) Ability to control the vehicle steering wheel c) Correct procedures and technique of changing gear d) Ability to reduce speed by correct braking technique e) Ability to check blind spot regularly and know when to apply f) Understanding wheel trace differential g) Knowledge of traffic rules observation h) Ability to make a basic right turn and slow speed control i) Ability to move off from the slope(road) without rolling back • <i>Able to attain minimum requirements of subjects 1 to 13</i>

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STAGE 2 CONTENTS	
SUBJECTS	DETAIL SUBJECTS
14. Gear Shifting Road (3 rd & 4 th gear) <i>Minimum requirement (Road)</i>	a) Shifting gears with acceleration b) Shifting gears for deceleration with brake control co-ordination <i>Able to shift up gears with acceleration</i> <i>Able to shift down gears with engine brake and footwork co ordination</i>
15. Pre-drive check 16. Driving in observance with traffic rules <i>Minimum requirement (Circuit & Road)</i>	a) The exterior of the car b) The engine compartment c) Boot / spare tyre d) Cabin a) Traffic lights and traffic signs b) Pedestrian crossing c) Priority at intersection d) Yellow box <i>Able to drive according to Traffic signs and regulations (Judgement)</i>
17. Left turns and filter lanes <i>Minimum requirement (Road)</i>	a) Understanding various left turn on the public road b) Identify various filter lane on the public road c) Correct usage of gear selection when turning in filter lane d) Correct positioning of the vehicle before making a left turn/filter lane e) Safety checking procedures before/after entering left turn/filter lane <i>Able to make a left turns/filter lanes with correct speed and safety</i>
18. Speed control <i>Minimum requirement (Road)</i>	a) Speed limits b) Following distance (2 sec rule) c) Gear selection for various speed d) Passing another vehicle e) Braking at different speed <i>Able to adjust speed and select proper gears for various road and traffic conditions</i>
19. Driving on a slope <i>Minimum requirement (Circuit)</i>	a) Familiarisation of all circuit slope b) Stopping and moving off procedures on the slope (circuit) c) Usage of correct footwork procedure before moving off <i>Able to select correct gears when driving up/down a slope and to stop and move off from the slope with the correct technique</i>
20. Lane changing (part 1) <i>Minimum requirement (Circuit & Road)</i>	a) Understanding the lane changing procedure b) Understanding the usage of mirrors c) The judgement of other vehicle speed d) Staggered / diagonal methods of lane change e) Hints on overtaking or being overtaken <i>Able to regulate speed while lane changing and ability to judge other vehicles speed before a lane change</i>

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SUBJECTS	DETAIL SUBJECTS
21. Right turns <i>Minimum requirement (Road)</i>	a) Understanding right turn procedure b) Understanding to estimate other vehicle speed and distance c) Selection of gear when making a right turn d) Applying lane discipline when making a right turns e) Looking ahead to the direction of turns <i>Able to position correctly before turning and judge other vehicle's speed and distance</i> <i>Able to make a right turn smoothly with correct speed/gear selection and avoid wide/sharp turning</i>
22. Reversing and Three-point turn <i>Minimum requirement (Circuit & Road)</i>	a) Understanding reversing posture b) Estimation of slow speed control by using accelerator and clutch c) Target estimation inclusive of positioning and steering control d) The vehicle positioning and safe procedure for a Three-point turn <i>Able to control the slow speed while reversing</i> <i>Able to position and to execute three-point turn safely</i>
23. Directional change <i>Minimum requirement (Circuit)</i>	a) Reversing posture b) Slow speed control c) Target estimation d) Steering adjustment e) Positioning/timing of steering f) Safety checks/moving out g) Corrective actions <i>Able to control the slow speed while reversing and position the vehicle to the left or right with steering wheel sensing</i> <i>Able to do the directional change with proper safety procedures and not mounting the kerb</i>
24. U-turns <i>Minimum requirement (Road)</i>	a) Understanding the U-turn procedures and purpose b) Vehicle positioning and selection of gear c) Selection of the lane when doing the U-turn d) Safety checks before and after the U-turn <i>Able to control speed and position correctly before turning</i> <i>Able to turn into the correct lane</i>
25. Narrow courses <i>Minimum requirement (Circuit)</i>	a) Narrow courses and it uses b) S-course and the procedure c) Crank course and the procedure d) Safety requirement for Narrow courses e) Corrective actions <i>Able to drive through the narrow courses without mounting / striking the kerb</i> <i>Able to do corrective action when needed</i>
26. Review prior lessons <i>Minimum requirement (Circuit & Road)</i>	a) Gear shifting b) Left/right turns and filter lane c) Traffic rules d) Speed control e) Lane changing f) Directional change/reversing g) U-turns h) Narrow courses <i>Able to attain minimum requirements of subjects 16 to 26</i>

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STAGE 3 CONTENTS	
SUBJECTS	DETAIL SUBJECTS
27. Vertical Parking <i>Minimum requirement (Circuit)</i>	a) Understanding what is vertical parking b) Understanding the vertical parking reference point c) Positioning of the vehicle d) Slow speed control and safety check e) Understanding how to do corrective actions • <i>Able to park the vehicle within the stipulated time given without mounting the kerb</i>
28. Lane Changing (part 2) Heavy traffic <i>Minimum requirement (Road)</i>	a) Lane changing in different traffic condition (heavy traffic) b) Merging with acceleration c) The judgement of speed and distance • <i>Able to regulate speed while changing lane changing and not to cause another vehicle to take evasive actions and no abrupt lane changing</i> • <i>Minimum one session</i>
29. Parallel Parking <i>Minimum requirement (Circuit)</i>	a) Understanding what is parallel parking b) Understanding the parallel parking reference point c) Positioning of the vehicle d) Slow speed control and safety check e) Understanding how to do corrective actions • <i>Able to park the vehicle within the stipulated time given without mounting the kerb</i>
30. Reacting towards road hazards and Emergency brake <i>Minimum requirement (Circuit & Road)</i>	a) Understanding what is road hazards b) Traffic conditions c) Natural condition d) Reaction on how to go through a road hazards e) What are the safety procedures when encountering road hazards f) Understanding what is emergency brake g) Procedure and technique h) Reaction and moving off • <i>Able to react to various road hazards with safety procedures</i> • <i>Able to react and brake with correct technique and procedures</i>
31. Review all prior lessons (with test routes) <i>Minimum requirements (Circuit & Road)</i>	a) All circuit obstacle courses b) Speed control c) All turnings d) Lane changing e) Traffic rules f) Safety checks and awareness • <i>Able to attain minimum requirements of subjects 1 to 31</i> • <i>Minimum one session</i>

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STAGE 4 CONTENTS	
SUBJECTS	DETAIL SUBJECTS
32. Traffic police test checklist (with road test route) <i>Minimum requirement (Circuit & Road)</i>	a) Introduction of T.P checklist with road test routes driving b) Pre - Assessment (30 points and below) • Not exceeding 30 demerit points or any immediate failure mistake • Minimum one session
33. Comprehensive driving (with road test route) <i>Minimum requirements (Circuit & Road)</i>	a) Improve on weak areas and prepare for final assessment b) Familiarization of road test routes • Minimum one session
34. Pre – Traffic Police Test assessment <i>Minimum Requirement (Circuit & Road)</i>	a) Final assessment according to traffic police checklist • Not exceeding 18 demerit points or any immediate failure mistake • Minimum one session