

103. The advantages of applying the engine-brake going downhill are:
- More effective braking when done together with the front and rear brakes;
 - The vehicle is unlikely to skid when braking;
 - The main cause of 'brake fade' is the brakes overheating. Use engine brake to overcome 'brake fade' when braking down a long steep slope.

CORRECT BRAKING TECHNIQUE

104. When stopping is necessary, you must first consider the speed of the motorcycle and the available distance ahead;
- Use engine braking.
 - Use both front and rear brake early.
 - Gradually increase the pressure of the initial stage if the speed is fast.
 - Do not use the brakes and pull in the clutch together immediately after releasing the throttle grip.
 - Pull in the clutch lever fully before engine starts to knock.
 - Change down to 1st gear.
 - Release pressure when the machine comes to a stop and place your left foot on the ground.
 - Make sure the front wheel stops before the target line.

On a wet surface, the stopping distance of a motorcycle will increase to about twice the distance of that on a dry road. This is because there is less friction on a wet road. Avoid sudden and hard braking as this will cause the wheel to skid, causing the motorcycle to fall.

If the wheels skidded accidentally, quickly release the brakes and apply intermittent braking technique until the motorcycle comes to a stop. However, it is important that you ride at a lower speed to avoid any mishap under such dangerous circumstances.

EMERGENCY BRAKING

105. Emergency braking is to stop the motorcycle in the shortest possible time to prevent a collision. Do not apply the front and rear brakes too hard instantly as it may cause the wheels to lock. If the wheels are locked, this may cause the motorcycle to skid. If the wheels lock and the motorcycle slides forward, release and re-apply the brake repeatedly to stop the motorcycle.

The correct technique is to apply the brakes hard without locking the wheels. The correct technique is as follows;

- Keep your body straight, look straight ahead, elbows straighten, grip fuel tank tightly with both knees and holding the handlebar firmly with both hands.
- Close the throttle to make use of engine brake.
- Apply the front brake and rear brakes effectively to prevent losing control of the motorcycle.
- As the motorcycle is about to come to a complete stop, pull in the clutch lever fully to prevent the engine from stalling.