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BRAKE TESTING

There are 3 main types of brakes for vehicles; **the Frictional brakes**, the most common brake. They are often rotating devices with a stationary pad and a rotating wear surface. There is also **Pumping brakes**, these brakes are often used when a pump is already part of the machinery. Pumping brakes can dump energy as heat or can be regenerative brakes that recharge a pressure reservoir that is called a hydraulic accumulator. The third typical brake used on vehicles are **Electromagnetic brakes**, they are often used if an electric motor is already part of the machinery. Many hybrid gas/electric vehicles use the electric motor as a generator to charge electric batteries and also as a regenerative brake.



Dynamic brake testing:

The two most common brake tests in dynamic testing is Emergency Braking test to ADR 31&35 standards and Lane Change test to ADR 10&ISO 3880.

The **lane change test** is designed to demonstrate that the vehicle is capable of changing lanes in different road and weather conditions, without losing the control of the vehicle when performing this manoeuvre.

The **emergency brake test** demonstrates if the vehicle is capable of stopping safely from a maximum permissible speed of 110km/h to 0km/h in different road and weather conditions without losing the direction or spinning towards the oncoming traffic.



There are many vehicles throughout Australia today that have had their brakes tested using a methodology that does not comply with ADRs and AS Standards, it is important for everyone to have brakes that are approved by authorities and experts in what they do!

At ASE we are certified to test and give certificates to brakes. We follow Australian and International standards and with 20 years in the industry we are sure we can help you with your brakes!