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## **STUDENT ASSESSMENT INFORMATION**

### **TLIC2507B OPERATE A FOUR WHEEL DRIVE VEHICLE**

This unit deals with the skills and knowledge required to operate a four wheel drive vehicle safely in a range of conditions. These include driving a four wheel drive vehicle on normal roads, traversing slopes, ascending and descending steep slopes and stall start recovery. It also includes operation of the vehicle in rugged terrain, the use of a jack and the completion of all pre and post operational checks. Assessment of this unit will be made through observation and by answering a number of questions.

#### **Competency Unit Elements:**

1. Operate four wheel drive vehicles on normal roads
  1. Pre-start checks of vehicle and equipment are carried out to manufacturer's specifications and roadworthy requirements
  2. Tyres are checked for pressure suitable for terrain and/or changed in accordance with workplace procedures
  3. Loads are secured in accordance with workplace and legislative requirements'
  4. Vehicle is driven on and off road to legislative and workplace requirements, at appropriate speeds for conditions and hazards
  5. Vehicle is parked and shut down in accordance with workplace and manufacturer's requirements
  
2. Operate vehicle on, or across, a slope
  1. Pre-start checks of vehicle and equipment are carried out to manufacturer's specifications and roadworthy requirements
  2. Tyres are checked for pressure suitable for terrain and/or changed to operational guidelines
  3. Loads are secured in accordance with workplace and legislative requirements
  4. Vehicle is driven on and off road to regulatory and workplace requirements at appropriate speeds for conditions and hazards
  
3. Operate vehicle ascending a steep slope including stall recovery
  1. Intended vehicle path is inspected prior to negotiation of slope
  2. Appropriate gear is selected to ascend grade, and engine revolutions maintained to ensure constant traction
  3. Air-conditioning unit is turned off to avoid engine acceleration

4. Foot brake is applied as vehicle stalls, handbrake applied and ignition turned off
  5. Clutch is depressed and reverse gear selected
  6. Clutch is released and handbrake is slowly released
  7. Ignition is turned on and brakes are released
  8. Vehicle is started and allowed to reverse down the slope
  9. Brakes are applied as necessary to control descent
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4. Operate vehicle descending a steep slope, including stall recovery
    1. Intended vehicle path is inspected prior to negotiation of the slope
    2. Appropriate gear is selected to ascend grade, and engine revolutions maintained to ensure consistent traction
    3. Air-conditioning unit is turned off to avoid engine acceleration
    4. Braking is used to control decent and skidding is avoided by the application of brakes to emulate ABS
    5. Ignition is turned off, foot brake is applied, and handbrake engaged
    6. Clutch is depressed and low gear is selected
    7. Clutch is released and handbrake is slowly released
    8. Ignition is turned on and brakes are released
    9. Vehicle is started and allowed to continue down the slope
    10. Brakes are applied as necessary to control descent and skids are steered into
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5. Operate vehicle in rugged terrain
    1. Intended vehicle path is inspected prior to negotiation of rugged terrain
    2. Correct gear/range is selected to negotiate terrain
    3. Freewheel hubs are engaged and disengaged in accordance with driving conditions '
    4. Vehicle controls are set in accordance with manufacturer's instructions for operation in the surrounding terrain
    5. Traction is maintained in accordance with requirements of the vehicle and the surrounding terrain
    6. Selection of appropriate gear/range before negotiating terrain is demonstrated .
    7. Where necessary, chains are fitted to vehicle in accordance with manufacturer's instructions
    8. Vehicle load is inspected, positioned and secured to maximise traction for four wheel driving
    9. Terrain is negotiated in accordance with requirements for specific driving conditions

## 6 Operate jack

1. Jack is located under vehicle in accordance with vehicle manufacturer's specifications and workplace procedures
2. Jack is used and operated in accordance with manufacturer's specifications and workplace procedures

## 7. Complete operations

1. Vehicle is parked and shut down to workplace and manufacturer's requirements
2. Faults or malfunctions are corrected and/or reported in accordance with workplace requirements
3. Vehicle and equipment are cleaned and stored after use in accordance with workplace requirements
4. Any log books or reports required by the workplace are completed in accordance with workplace procedures