

Assessment Requirements

Unit AE09K – Knowledge of the Suitability, Installation and Configuration of Vehicle Electrical Enhancements and Security Systems

Content:

The different types of electrical enhancement systems and components

- a. Systems and components to include:
 - i. radio/CD players
 - ii. multi-play CD players
 - iii. DVD
 - iv. MP3 players
 - v. speakers
 - vi. aerial systems
 - vii. amplifiers
 - viii. visual display screens
 - ix. satellite navigation
 - x. mobile communication units
 - xi. networking systems
 - xii. body electrical systems
 - xiii. data logging

The function of component parts in the electrical enhancement systems

- a. Components include:
 - i. Radio
 - ii. CD
 - iii. Video
 - iv. DVD players
 - v. aerial systems
 - vi. speakers
 - vii. amplifiers
 - viii. visual display screens
 - ix. mobile communication systems
 - x. networking systems
 - xi. body electrical systems
 - xii. data logging

The operating principles of electrical enhancement systems

- i. in car entertainment
- ii. audio systems
- iii. communication systems
- iv. networking systems
- v. body electrical systems

The relevant legislation relevant to the electrical enhancement systems

- a. Find and apply all relevant legislation for the fitment and use of I.C.E systems.

Faults and testing methods associated electrical enhancement systems

- a. Test and procedures for the following:
 - i. radio/CD players
 - ii. speakers

- iii. aerial systems
- iv. amplifiers
- v. wiring
- vi. connections
- vii. relays
- viii. fuses
- ix. removal and refitting procedures
- x. networking systems
- xi. body electrical systems
- xii. data logging

Types of security/warning systems and components

- i. components to include:
- ii. control units
- iii. alarm modules
- iv. audible warning units
- v. immobiliser units
- vi. location/tracking units
- vii. electronic deadlocking units
- viii. sensing units
- ix. horn
- x. audible warning speakers

The function of component parts in security and warning systems

- a. Components to include:
 - i. control units
 - ii. alarm modules
 - iii. audible warning units
 - iv. interior sensing systems
 - v. immobiliser units
 - vi. location/tracking units
 - vii. electronic deadlocking units
 - viii. relays
 - ix. diodes
 - x. horns

The operating principles of security and warning systems

- a. Operation of alarm systems and audible warning units.
- b. Immobiliser systems
- c. Location/tracking systems
- d. Electronic deadlocking systems

The relevant legislation relevant to security and warning systems

- a. Find and apply all relevant legislation for the fitment and use of security and warning systems.

Faults and testing methods associated security and warning systems

- a. Components to include:
 - i. control units
 - ii. audible warning units
 - iii. immobiliser units
 - iv. horns
 - v. relays
 - vi. diodes
 - vii. wiring
 - viii. connections and protection devices

- ix. removal and refitting procedures