

## Assessment Requirements

### Unit HV01K – Knowledge of Conducting Routine Heavy Vehicle Maintenance

#### Content:

#### Vehicle maintenance, adjustment and record findings

- a. Vehicle inspection techniques used in routine maintenance including:
  - 1. aural
  - 2. visual and functional assessments on:
    - i. engine systems
    - ii. chassis systems
    - iii. wheels and tyres
    - iv. transmission system
    - v. electrical and electronic systems
    - vi. exterior vehicle body
    - vii. vehicle interior
- b. The procedures used for inspecting the condition and serviceability of the following:
  - i. filters
  - ii. drive belts
  - iii. wiper blades
  - iv. brake linings
  - v. pads
  - vi. lights
- c. Preparation and appropriate use of equipment to include:
  - i. test instruments
  - ii. emission equipment
  - iii. wheel alignment
  - iv. beam setting equipment
  - v. tyre tread depth gauges
- d. Procedures for checking and replenishing where applicable:
  - i. oil (engine, gearbox, final drive, hub reduction)
  - ii. water (coolant and screenwash)
  - iii. hydraulic fluids (brake and clutch)
  - iv. engine emission additives (Urea)
  - v. pneumatic systems
- e. Procedures for replacement of lubricants and filters (to include chassis systems):
  - i. replace oil filters
  - ii. types of oil
  - iii. cleanliness
  - iv. disposal of old oil and filters
- f. Procedures for carrying out adjustments on vehicle systems or components:
  - i. clearances
  - ii. settings
  - iii. alignment
  - v. operational performance (engine idle, exhaust gas)
- g. Procedures for checking electrical systems:
  - i. operation
  - ii. security
  - iii. performance
  - iv.

- h. Importance and process of detailed inspection procedures:
  - i. following inspection checklists
  - ii. checking conformity to manufacturer's specifications
  - iii. legal requirements as applicable
- i. Importance and process of completing all relevant documentation relating to routine maintenance:
  - i. inspection records
  - ii. job cards
  - iii. vehicle repair records
  - iv. in-vehicle service history

**The need to use vehicle protection prior to repair**

- a. Requirements and methods used for protecting:
  - i. vehicle body panels
  - ii. paint surfaces
  - iii. seats
  - iv. interior floor protection

**The need to check the vehicle following routine maintenance**

- a. The need to inspect the vehicle following routine maintenance:
  - i. professional presentation of vehicle
  - ii. customer perceptions
- b. The basic checks of vehicle following routine maintenance:
  - i. removal of oil and grease marks
  - ii. body panels
  - iii. paint surfaces
  - iv. seats
  - v. interior floor protection
  - vi. re-instatement of components