

UET Trade Test Options

Practical Assessment – Mechanical Engineering

Instructions

- The assessment must be conducted in a controlled assessment location which may be either on-site or in an environment that reflects the hazards and risks of a real time working environment. The assessment must be designed to meet the requirements of the Utilities Engineering Technician Standard (UET) – Level 3
- The assessment must incorporate the use of specialised tools and techniques to demonstrate the more complex higher order level of skills required by the role
- The technical assessor conducting the assessment must remain in visual contact with the candidate throughout the trade test assessment
- The technical assessor shall ask knowledge questions where competence is not confirmed through observation of natural performance and record the answers given
- Thought must be given to ensure the chosen task is suitably complex for a trade assessment.

Test No	Trade Test Description
<p>Test 1</p>	<p>Install and commission mechanical equipment and systems commonly found within their industry sector. The scope of work must include installation of ONE of the following pieces of mechanical plant / equipment: -</p> <ul style="list-style-type: none"> • Centrifugal pump • Positive displacement pump • Gearbox • Chemical dosing equipment • Scraper systems (large tank) • Screenage system • Blower • Compressor <p>Alternative equipment may be selected but must hold a similar level of complexity and interaction to other plant, and systems as those listed above.</p> <p>The complexity of the maintenance activity must include ALL of the following</p> <ul style="list-style-type: none"> • Checking any isolation of electrical systems / equipment • Safe isolation of any stored energy system • Installation of mechanical plant / equipment • Commission mechanical plant and equipment
<p>Test 2</p>	<p>Facilitate complex maintenance work on mechanical equipment and systems commonly found within their industry sector. The scope of work must include maintenance of TWO of the following pieces of mechanical plant / equipment: -</p> <ul style="list-style-type: none"> • Centrifugal pump • Positive displacement pump • Gearbox • Chemical dosing equipment • Scraper systems (large tank) • Screenage system • Blower • Compressor <p>Alternative equipment may be selected but must hold a similar level of complexity and interaction to other plant, and systems as those listed above.</p> <p>The complexity of the maintenance activity must include ALL of the following</p> <ul style="list-style-type: none"> • Function Test • Safety Test • Condition Monitoring • Inspection