SFJ ZI12
Identify and evaluate technical support systems and equipment for specific needs

This unit is about identifying systems and equipment which may meet a specific need or scalable project, preparing to evaluate the identified systems and equipment, testing the systems and equipment to determine their performance and validating their ultimate capability.

There are two elements

1. Identify systems and equipment to meet specific needs
2. Evaluate systems and equipment for specific needs

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Performance criteria

Identify systems and equipment to meet specific needs

You must be able to:

P1   identify systems and equipment which to meet a specific need

P2   identify potential suppliers of the systems and equipment

P3   assess and negotiate specifications for the identified systems and equipment with potential suppliers

P4   evaluate the systems and equipment against agreed criteria

P5   complete relevant documentation accurately, comprehensively and legibly

Evaluate systems and equipment for specific needs

You must be able to:

P6   adhere to health and safety procedures throughout the process

P7   prepare the systems and equipment ready for evaluation according to manufacturer's instructions and user requirements

P8   test the systems and equipment through the range of claimed performance and check for fitness for purpose requirements

P9   set up adequate recording systems to record the results of the evaluation

P10   implement relevant diagnostic and testing procedures

P11   operate the systems and equipment and compare them against the known standards and specification

P12   obtain accurate test results and check them against records made

P13   make appropriate recommendations based on the evaluation

P14   complete relevant documentation accurately, comprehensively and legibly

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Knowledge and understanding

You need to know and understand:

Legal and organisational requirements

K1 your responsibilities under current legislation and regulations and the implications of non-compliance

K2 organisational policies and procedures in respect to loans and procurement

Identifying systems and equipment to meet specific needs

You need to know and understand:

K3 how to identify systems and equipment

K4 the range of suppliers available and how to contact them

K5 what information to record and the importance of keeping accurate records

Evaluating systems and equipment for specific needs

You need to know and understand:

K6 manufacturer's specifications and user requirements

K7 what factors to consider when selecting which diagnostic and testing procedures to use

K8 factors to take into consideration when recommending the purchase or return of the system and equipment

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Scope/range related to performance criteria

Identify systems and equipment to meet specific needs

1 systems and equipment
    1.1. electronic
    1.2. electrical
    1.3. mechanical
    1.4. software
    1.5. emerging technology

Evaluate systems and equipment for specific needs

2 systems and equipment
    2.1. electronic
    2.2. electrical
    2.3. mechanical
    2.4. software
    2.5. emerging technology

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