ICT SYSTEM SUPPORT

UNIT CODE: IT/CU/ICT/CR/4/6

Relationship to Occupational Standards

This unit addresses the unit of competency: **PERFORM ICT INFRASTRUCTURE**

SUPPORT

Duration of Unit:150hours

Unit Description:

This unit describes the competencies required to perform ICT infrastructure support. It involves identification and documentation of ICT infrastructure, evaluation of the state of performance and possible causes of failure, diagnosing and fixing of the problems, testing of performance and user training.

Summary of Learning Outcomes:

By the end of the unit, the trainee should be able to:

- 1. Identify and Document ICT infrastructure
- 2. Evaluate the state of performance and possible causes of failures
- 3. Diagnose and fix problems
- 4. Test component performance
- **5.** Perform User training

Learning Outcomes, Content and Suggested Assessment Methods

| Learning Outcome | Content | Suggested Assessment Methods |
|--------------------------|-------------------------------------|---------------------------------|
| 1. Identify and Document | Definition of ICT infrastructure | Practical exercises |
| ICT infrastructure | Components of ICT | • Oral questioning |
| | Infrastructure | • Learner portfolio of |
| | ☐ ICT Infrastructure specifications | evidence |
| | ☐ Types of ICT infrastructure | |
| | ✓ Computer hardware | |
| | platforms | |
| | ✓ Operating system | |
| | platforms | |
| | ✓ Enterprise and other | |

| | software applications ✓ Data management and storage ✓ Networking and ✓ telecommunications platforms ✓ Internet platforms ✓ End users □ Safety precautions of ICT Infrastructure □ Documentation of Infrastructure assets and their operational and service status | |
|---|---|--|
| 2 Evaluate the state of performance and possible causes of failures | □ Define troubleshooting □ Possible causes of failure ✓ Unstable power ✓ Malfunctioning ✓ Mechanical faults □ Environmental factors ✓ Natural disasters ✓ Dust ✓ Ventilation □ User factors ✓ Malicious damage ✓ Accidents ✓ Lack of maintenance | ObservationPracticalProjects |
| 3. Diagnose and fix problems | □ Define Diagnostic terms □ Identify diagnostic and repair tools and their functions □ Tools to diagnose and fix the problems. □ Hardware related problems □ Software related problems □ Internet/network related problems □ User related problems □ Role of ICT Policies in organizations | Practical exercises Oral questioning Written tests Learner portfolio of evidence. |

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| 4.Test component performance | □ Test Hardware performance □ Test Software performance □ Test Internet/network performance □ Performance analysis □ Recommendation from performance analysis □ Performance test report | Practical exercisesOral questioning |
|------------------------------|--|--|
| 5. Perform User training | Meaning of user training Importance of user training Implement end user training plan | Practical exercises Oral questioning Learner portfolio of evidence. Observation |

Suggested Methods of Delivery

- Presentations and practical demonstrations by trainer;
- Guided learner activities and research to develop underpinning knowledge;
- Supervised activities and projects in a workshop;

The delivery may also be supplemented and enhanced by the following, if the opportunity allows:

- Visiting lecturer/trainer from the ICT sector;
- Industrial visits.

Recommended Resources

- Power
- Network cabinets

Reference materials

Manufacturers manuals

easylvet.com