

School of Information and Technology

Programme Name: Skills programme in Network Technologies

Full-time / Part-time: Part-time

Description

If you would like to be involved with the crazy world of networks, building and troubleshooting them, then this is the programme for you.

This skills programme will enhance a learner's ability to build a network and troubleshoot the network environment.

Admission Requirements

- A knowledge, comprehension and application of English at NQF level 3/ Grade11 or equivalent.
- A knowledge, comprehension and application of mathematics at NQF level 3 / Grade11 or equivalent.
- Skills programme in PC Technologies
- Relevant experience would be an advantage.

Certification

On successful completion of the programme, the learner will receive a Damelin Skills Programme Certificate in Network Technologies. This skills programme is a part qualification that is mapped to a cluster of unit standards taken from the ISETT SETA National Certificate in Information Technology: Technical Support, SAQA ID 24293, NQF level 4, 167 credits.

Programme Outcomes

- Communicate effectively
- Demonstrate an understanding of different types of computer systems and the use of computer technology in business
- Demonstrate problem solving techniques.
- Demonstrate an understanding of Computer Technology Principles
- Select and use materials and equipment safely for technological purposes
- Work effectively as a team member within a support team
- Carry out, a small size task to demonstrate knowledge of techniques & skills needed in one or more of the following areas of majoring /specialization
 - Hardware and Infrastructure Support for Personal Computers
 - Data Communications and Network Support

Programme Outline Network Technologies (33 credits)

Demonstrate an understanding of testing IT systems against given specifications (6 credits)

- Select an appropriate test procedure for the hardware and software
- Apply the test procedure to hardware and software
- Collect and record data from tests

Explain the principles of computer networks (5 credits)

- Describe data communication
- Demonstrate knowledge of main features of LANs
- Demonstrate knowledge of main features of WANs

Resolve technical computer problems (5 credits)

- Troubleshoot technical computer problems, identifying possible course of action
- Provide solutions to technical computer problems including time estimates, cost and resources needed
- Maintain information logs of problems identified

Apply the principles of supporting users of local area networks (7 credits)

- Demonstrate the use of a LAN
- Install single-user computer application software package
- Customise a LAN workstation
- Connect a LAN workstation

Install a local area network (10 credits)

- Review the design and installation plan for a local area computer network
- Install local area computer network devices
- Install local area computer network system and application software
- Test the installation of a local area computer network
- Gain user acceptance for the installation of a local area computer network

Assessment

The learner will be required to complete a portfolio of evidence to support the competent findings of the assessor. The Learner will be supported and guided towards reaching this goal.

Duration

The programme duration is **72 hours** and the tuition is face to face. Damelin tuition is scheduled per campus. Programmes are offered during the week, in the evenings, or on Saturdays. Damelin campuses countrywide have updated schedules on their local programme offerings.

Further Studies:

Learners who have completed this skills programme can articulate to the Skills programme in Network Support or the Certificate in Technical Support.

NQF alignment

The unit standards in this skills programme are listed below.

| SAQA ID | TITLE | NQF LEVEL | CREDITS |
|----------------------|---|-----------|-----------|
| 14908 | Demonstrate an understanding of testing IT systems against given specifications | 4 | 6 |
| 14913 | Explain the principles of computer networks | 3 | 5 |
| 14938 | Resolve technical computer problems | 4 | 5 |
| 14937 | Apply the principles of supporting users of local area networks | 4 | 7 |
| 14953 | Install a local area network | 4 | 10 |
| TOTAL CREDITS | | | 33 |

About the School

The School of Information and Technology offers learners a wide variety of computer-related programmes that will enable successful learners to gain employment. All programmes have been aligned to registered SAQA qualifications and unit standards. Skills programmes offered by the School are building blocks towards the certificate programmes. The programmes range from basic computer skills (word processing, spreadsheet design and presentation design) to communication and information technology, web design, desktop publishing and programming. Both full-time and part-time programmes are offered. Refer to the prospectus for a full list of programmes. The School offers a wide variety of programmes that will

enable successful learners to gain employment.

Pricing

Enquire at your nearest Damelin campus for a current Programme Price List. This programme price includes all prescribed text books.

Additional costs

You will be required to have your own computer or at least frequent access to a computer and the necessary software.

Disclaimer

The content of this brochure, accurate at time of going to print, is subject to change without notification due to legislation, market requirements or any other reason. Damelin reserves the right to change the programme content without notice.