

## School of Information and Technology

**Programme Name:** Skills programme in PC Technologies

**Full-time / Part-time:** Part-time

### Description

If you are the type of person that loves to build or fix your own computer, this is the way to go.

Learners will be able to find employment in the technical department of companies specialising in customising computers for their customers.

### 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.
- PC competency skills
- Relevant experience would be an advantage.

### Certification

On successful completion of the programme, the learner will receive a Damelin Skills Programme Certificate in PC 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

- 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

### Programme Outline PC Technologies (37 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

**Demonstrate an understanding of preventative maintenance, environmental and safety issues in a computer environment (6 credits)**

- Use preventative maintenance measures and the procedures involved of computer hardware
- Use of safety measures and procedures of a computer working environment
- Explain environmental protection

**Describe the type of computer systems and associated hardware configurations (6 credits)**

- Describe past, present and future computer hardware configurations
- Describe categories of computer system applications.

**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

**Assemble a personal computer (7 credits)**

- Plan the assembly of a single-user personal computer.
- Assemble a single-user personal computer from modules
- Test single-user personal computers
- Dispatch single-user personal computers

**Explain computer architecture concepts (7 credits)**

- Explain computer architecture elements
- Explain the organisation of a computer
- Describe the design constraints in the design of instruction sets for computers.

**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 **100 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

Skills programme in Network Technologies or the Certificate in Technical Support.

### NOF alignment

The unit standards in this skills programme are listed below.

| SAQA ID              | TITLE   | NOF LEVEL | CREDITS   |
|----------------------|---|-----------|-----------|
| 14908                | Demonstrate an understanding of testing IT systems against given specifications                                     | 4         | 6         |
| 14939                | Assemble a personal computer or handheld computer and peripherals from modules                                      | 4         | 7         |
| 14938                | Resolve technical computer problems   | 4         | 5         |
| 14921                | Describe the types of computer systems and associated hardware configurations                                       | 4         | 6         |
| 114636               | Demonstrate an understanding of preventative maintenance, environmental and safety issues in a computer environment | 3         | 6         |
| 14917                | Explain computer architecture concepts  | 4         | 7         |
| <b>TOTAL CREDITS</b> |   |           | <b>37</b> |

### 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.



**Fact Sheet**



  
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