

COMPANY PROFILE

SCIENTEC Education and Training (Pty) Ltd is a fully accredited private education and training provider as well as Accredited Assessment Centre.

The college is based in Durban and operates nationally.

Scientec has been offering training and educational programmes since 2003.

WHAT WE OFFER

For the Chemical Sector

Occupational qualifications:

- Chemical Plant operator – Level 4
 - **Accredited EISA Centre**
- Chemical Plant Controller – Level 5
 - **Accredited EISA Centre**
- Chemical Production Machine Operator – Level 2
 - **Accredited EISA Centre**

Legacy qualifications:

- Chemical operations L1-L4
- NC: Automated Packaging (Level-3)

Food and Beverage Sector:

- Intermediate Occupational Certificate: Food and Beverage Packaging Operator Level 3 (123 Credits) 121148
- Intermediate Occupational Certificate: Process Machine Operator Level 3 (123 Credits) 121149

Electrical Trade:

Apprenticeship & Recognition of Prior Learning (ARPL)

Photo Voltaic Technician:

- Occupational Qualification - Solar Photovoltaic Service Technician Level 5 (344 Credits)
- Occupational Certificate: System Moulder - Qualification ID 120885 Level 04 – 84 Credits
- Occupational Certificate: System Installer - Qualification ID 120883 – Level 04 - 211 Credits

National N Diploma - Faculty Of Engineering:

- Chemical Engineering (N4-N6)
- Mechanical Engineering (N4-N6)
- Electrical Engineering (N4-N6)

National N Diploma - Faculty Of Management & Commerce:

- Business Management (BMG)
- Human Resource Management (HRM)

OUR CLIENTS

- SAPREF
- ENGEN
- SASOL
- Bidvest Tank Terminals
- Aspen SA Operations
- Unilever SA
- Blendcor
- AKZO Nobel
- GeoChem
- Isegen SA
- Quantum Polymers
- Scott Bader
- Blendrite
- UnicoTech
- ShuSA

STRATEGIC PARTNERS

- Sector Education & Training Authority
 - Chemical Sector
 - Food and Beverage Sector
- Dept Higher Education & Training
- Quality Council of Trade and Occupation
- National Artisan Moderation Body
- Durban Chamber of Commerce
- Electrical Contractors Association (ECA)
- National Rural Youth Service Corps (NARYSEC)
- Durban Chemical Cluster (DCC)
- Southern African-German Chamber of Commerce and Industry (AHK)

OCCUPATIONAL QUALIFICATION - CHEMICAL PRODUCTION MACHINE OPERATOR
Qualification ID 117307 - Level 2 – 134 Credits
1 Year Program

Purpose

This qualification prepares learner to operate machinery and equipment in a Chemical Production Environment. A Chemical Production Machine Operator troubleshoots, monitors and operates equipment to process, handle, transfer, sample and test a wide range of chemical products

A qualified learner will be able to:

- Monitor stock levels, measure and load/transfer chemical materials following plant specific requirement
- Set up, start, control, adjust and stop equipment and plant operations Monitor and control systems in the production process.
- Perform routine sampling and chemical and physical testing of materials, where required and record production data.
- Monitor chemical manufacturing process.
- Perform housekeeping activities and minor troubleshooting and repairs.
- Follow the Safety, Health and Environment related practices

Entry Requirements:

NQF Level 1 qualification with Communication and Mathematical Literacy

Program Delivery options:

At our Training Centre or on Client site

Virtual Classes

Hybrid Approach

Can be done nationally – to be quoted as per region

OCCUPATIONAL QUALIFICATION - CHEMICAL PLANT OPERATOR

Qualification ID 102156 - Level 4 – 487 Credits

3 Year Program

Purpose

This qualification prepare a learner to operate machinery and equipment in a Chemical Production Environment. A Chemical Plant Operator operates a chemical plant remotely, and controls and monitors the quality of the end-product.

A qualified learner will be able to:

- Start a chemical process in a chemical plant.
- Control, maintain and monitor the chemical processing plant and equipment of a chemical plant to a specified state.
- Shut down a chemical process in a chemical plant to a specific state.
- Maintain the quality of the chemical product in a chemical process.
- Assess risks and respond to hazardous conditions, emergencies and abnormal conditions

Entry Requirements

NQF Level 1 qualification with Communication and Mathematical Literacy

Program Delivery options:

At our Training Centre or on Client site

Virtual Classes

Hybrid Approach

Can be done nationally – to be quoted as per region

OCCUPATIONAL QUALIFICATION - CHEMICAL PLANT CONTROLLER

Qualification ID 111359 - Level 5 – 180 Credits

Purpose

This qualification prepare a learner with the required knowledge, practical skills and workplace based experience to operate as a Chemical Plant Controller. Chemical Plant Controller controls and monitors the safe and efficient operation of a chemical process plant, according to specification

A qualified learner will be able to:

- Control operations according to production schedule.
- Perform plant operations as per Standard Operating Procedures and/or work instructions.
- Perform quality controls as per quality standards.

Entry Requirements:

NQF Level 4 qualification

Program Delivery options:

At our Training Centre or on Client site

Virtual Classes

Hybrid Approach

Can be done nationally – to be quoted as per region

AUTOMATED PACKAGING
Qualification ID 58975 - Level 3 - 120 Credits
1 year Learnership

Purpose

This qualification is aimed at the learner who wants to obtain the standards and the range of learning required for the packaging of chemical and chemically related products, where the packaging process is primarily automated.

Qualifying learners will be able to

- Understand the importance and use of packaging,
- Package products according to Company standards,
- Maximise quality and workplace productivity,
- Perform basic maintenance on the equipment,
- Operate effectively within the context of relevant safety, health and environment, and
- Co-ordinate people and activities in his/her area.

Minimum Entry Requirements

Level 3: Min. GRADE 11 with Maths/Math lit and English

Program Delivery options:

At our Training Centre or on Client site

Virtual Classes

Hybrid Approach

Can be done nationally – to be quoted as per region

ELECTRICAL TRADE - ELECTRICIAN
Qualification ID 91761 Level 04 – Credits 360
Apprenticeship 3 Years

Purpose

The purpose of this qualification is to prepare a learner to operate as an Electrician. Electricians plan, prepare install, test, connect, commission, maintain, alter and repair electrical equipment, wiring and control systems and apply the knowledge and skills obtained, in a variety of contexts.

A qualified learner will be able to

- Plan and prepare work site, equipment, tools, consumables and materials for electrical activities and operations.
- Install, wire and connect electrical equipment and control systems.
- Test and inspect electrical equipment, control systems and installations.
- Commission control systems and installations.
- Maintain and repair electrical equipment, control systems and installations.

Entry Requirements

NQF Level 1 qualification with Mathematics and Science

Implementation Training Plan (3 Years Including Trade Testing)

- Inclusive of Theoretical, Practical and Workplace Training
- The Knowledge modules and elements of certain Practical Modules will take place at Scientec premises
- All Workplace modules and elements of certain Practical Modules will take place at an approved Workplace Provider

ELECTRICAL TRADE TEST

Course Overview

All our training is delivered in a practical workshop environment. We have state of the art campus and equipment where simulation of trade test according to NAMB (National Artisan Moderating Body) requirements take place.

Students learn, to practically apply, practice and demonstrate their acquired skills. This is experiential preparation at its best.

Bridging Gaps

Where training 'GAPS' have been identified for candidates in the pre trade test assessment, they can address these gaps through specific module training, prior to attempting the Trade Test. Relevant training packages would need to be compiled in accordance with gap

Artisan Recognition of Prior Learning (ARPL)

Minimum Entry Requirements

- Three years relevant verifiable work experience.

Program Delivery options:

At our Training Centre

Pre Evaluation	Gap Training	Trade Test Prep	Trade Test Fee	Trade Test Re-write	
2 days	2 weeks	2 weeks	2 days	Less 50% Task Failed	Less 50% Task Failed

Occupational Qualification - Solar Photovoltaic Service Technician
Qualification ID 99447 Level 05 – Credits 344
3 Year Program

Purpose

This qualification prepare a learner to qualify as a Solar Photovoltaic Service Technician.

A qualified learner will be able to

- Perform maintenance (preventative, scheduled, unscheduled) on PV systems in compliance with the Department of Energy and related regulations,
- Isolate the PV system (in the case of a PV farm this is done with authorisation obtained from the plant controller;
- Perform fault finding (trouble-shooting), identifies deficiencies;
- Analyses information, carries out maintenance, repairs (including removing and replacing components), and finds solutions to a range of problems.

A Solar Photovoltaic Service Technician may be employed either at a photovoltaic farm or at stand-alone PV installations. Hence, there is the Photovoltaic (PV) Service Technician (PV Farm) and the Photovoltaic (PV) Service Technician (Stand-Alone Installation).

Entry Requirements:

NQF Level 4 qualification with mathematics.

Program Delivery options:

At our Training Centre

Part Qualifications:

- Occupational Certificate: System Moulder - Qualification ID 120885 Level 04 – 84 Credits

A Solar Photovoltaic Moulder mounts pre-designed PV systems according to instructions from either a PV Installer or PV Designer. A qualified learner will be able to:

- Plan for the installation of a photovoltaic system.
- Install a photovoltaic system.
- Maintain, diagnose and repair electrical and mechanical components of PV systems.
- Occupational Certificate: System Installer - Qualification ID 120883 – Level 04 - 211 Credits

A Solar Photovoltaic Installer liaises with clients, conducts a site visit, obtains and analyses data, designs or customizes or compiles a PV system, selects the appropriate components, installs, commissions and tests a PV system for functionality.

Intermediate Occupational Certificate: Food and Beverage Packaging Operator
Qualification ID 121148 - Level 3 – 123 Credits
1 Year Program

Purpose

This qualification prepare a learner to operate as a Packaging Process Operator. A Food and Beverage Packaging Operator operate multiple pieces of equipment in primary, secondary and tertiary packaging processes, operates packaging equipment and performs tasks to package food, beverage and related products by adjusting, maintaining and overseeing the equipment set up and operating parameters to ensure that quality standards and specifications are met.

A qualified learner will be able to

Receive input materials for packaging operations according to organisational requirements and specifications.

Prepare input materials for the packaging of food and related products according to organisational requirements.

Package food and related products to organisational requirements and specifications.

Control the operation of packaging equipment and packaging of food and related products to organisational requirements and specifications.

Minimum Entry Requirements

An NQF Level 2 qualification with mathematics and communication.

Program Delivery options:

At our Training Centre or on Client site

Virtual Classes

Hybrid Approach

Can be done nationally – to be quoted as per region

Intermediate Occupational Certificate: Process Machine Operator
Qualification ID 121149 - Level 3 (123 Credits)
1 year Learnership

Purpose

This qualification prepare a learner to operate as a Food and Beverage Process Machine Operator. A Food and Beverage Process Machine Operator operates equipment and performs task to process Food and Beverage products for consumption while ensuring that quality standards and specifications are met.

A qualified learner will be able to

Receive food and beverage input materials according to specifications.
Prepare food and beverage related products for processing.
Process food and beverage related products to specification.
Control the operation of Food and Beverage processing to specification.

Minimum Entry Requirements

Level 3: Min. GRADE 11 with Maths/Math lit and English

Program Delivery options:

At our Training Centre or on Client site
Virtual Classes
Hybrid Approach

Can be done nationally – to be quoted as per region