



**NEWGEN**  
TRADE SCHOOLS



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# PLUMBING & ELECTRICAL TRADE QUALIFICATION

## ABOUT THE QUALIFICATIONS

At NewGen Trade Schools, our mission is to bridge the skills shortages and gaps of skilled tradespeople by preparing 15- to 19-year-olds for industry-related demands in a safe, well-monitored environment.

This one-of-a-kind trade school focuses on delivering a unique combination of trade and academic skills, internationally recognised qualifications and work experience as part of our unique combination of learning, working and mentoring, in an accessible programme geared towards employability.

**This pathway focuses on preparing every qualified student to be employable or able to start their own business.**



## WHY CHOOSE TO COMPLETE A TRADE QUALIFICATION?

A trade qualification is highly sought after today, since these skills have become scarce both locally and internationally. Obtaining a trade qualification is a valuable life choice.

Our qualified tradespeople are able to begin their chosen career path in Grade 9 (as early as age 15) and obtain their qualification along with a Business Management certificate and Red Seal (equivalent of Matric) in the same time it would have taken them to achieve a Matric pass! Now, school-leavers are ready to establish either their own trade-related business with unlimited earning potential, or work overseas as a very sought-after tradesperson.



## ADMISSION REQUIREMENTS

**Students should be aged 15 -19 years old and have passed Grade 9.**

# TECHNICAL REQUIREMENTS PROGRAMME DELIVERY

Our platform is fully technology-driven, therefore students will need a reliable PC, laptop or tablet or regular access to one. A stable internet connection with sufficient data to access online resources and participate in programme activities will be provided. Students will also get access to a Microsoft (MS) Office 365 account, giving access to the full MS suite along with numerous resources during the programme that will help complete tasks and assignments.



## PLUMBING AS A TRADE

After qualifying in this course, you will be able to integrate your knowledge, understanding and competencies related to occupational health and safety, National Building Regulations and industry codes of practice to perform a range of plumbing activities.

You will be able to:

- ✓ Apply understanding of the functioning of plumbing systems to install, test and maintain them in a building environment.
- ✓ Apply fault-finding techniques to diagnose and repair installed plumbing systems.
- ✓ Communicate in verbal and written form with peers, supervisors and other relevant role players.
- ✓ Identify and solve problems using practical mathematical applications.



## ELECTRICIAN AS A TRADE

After qualifying in this course, you will work effectively within various industries, making use of electrical engineering knowledge and skills to meet the challenges of such an environment.

You will be able to:

- ✓ Plan and prepare the 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.

**As a qualified tradesperson, you will also be able to maintain and support the various policies and procedures related to the safety, health, environment and quality systems that govern the workplace.**

**Furthermore, with the inclusion of the Business and Management qualification, you will be provided the theoretical and practical skills to manage or create your own business.**





## PLUMBING AND ELECTRICAL

Delivery and programme management:

### Three (3) months: theoretical and practical learning

The student will spend the three months full time at the campus, completing the following:

- ✓ Theory and practical learning for the relevant trade
- ✓ Working through Business and Management Modules 1 and 2
- ✓ Practical training on necessary skills in the workplace

### Three (3) months: work -ntegrated learning in preparation for the apprenticeship

The student will be returning to the campus once every fortnight. In this time, the student will receive:

- ✓ A progress check on trade-related skills
- ✓ Continuous up-skilling in competences related to the workplace
- ✓ Review of progress in the Business and Management course
- ✓ Regular check-ins with the wellness coach for each student
- ✓ Confirmation of placement of their apprenticeship

### Thirty (30) months: apprenticeship

Students are placed by NewGen Trade Schools with a vetted and approved partner in the related trade industry to undergo the required practical experience prior to undertaking the final trade test. Regular inspection visits to the partners and sites will be undertaken to ensure that our students are being looked after and applied in a suitable manner to maximise their learning experience.

Students will return to campus monthly. In this time, the student will receive:

- ✓ A progress check on trade-related skills
- ✓ Continuous up-skilling in competences related to the workplace
- ✓ Testing of skills learnt and practised in the field
- ✓ Review of progress in the Business and Management course
- ✓ Regular check-ins with the wellness coach for each student
- ✓ Confirmation of final preparation of trade test week and trade test date

## ASSESSMENT TYPE: PLUMBING AND ELECTRICAL

These courses culminate in a trade test at the end of the three-year period. Students return to campus for 2 weeks of trade test preparation prior to undergoing their final trade test. Upon passing, the student will receive a Section 26D, commonly known as The Red Seal, which is internationally recognised.

## BUSINESS AND MANAGEMENT NQF 4 LEVEL 3 (MATIC EQUIVALENCE)

This course consists of 9 modules P.O.E, including 9 assignments

Unit Title	Credit	Guided learning hours
Business Environment	10	60
How Businesses and Organisations Work	10	60
Business Communication	10	55
Working in Teams	10	60
Market Research	20	120
Introduction to Financial Controls in Business	15	90
Leading and Managing People	15	90
Principles of Marketing and Sales	15	90
Human Resources	15	90
TOTAL	120	715 Hrs

The Total Qualification Time is 1 200 hours, is not examination-based and is assessed through graded assignments, including self-testing exercises, continuous assessments of theory and practical applications consisting of 9 modules and 9 written assignments.



## QUALIFICATION EQUIVALENCE PROGRAMME ACCREDITATION

The International Access Qualification (IAQ) will enable students to pursue certificates, diplomas and degree programmes at multiple academic institutions in South Africa and abroad. This ATHE Certificate in Business & Management (NQF4) is designed to provide various progression options to other higher institutions, first-year university or Level 4 (NQF5) ATHE qualifications.

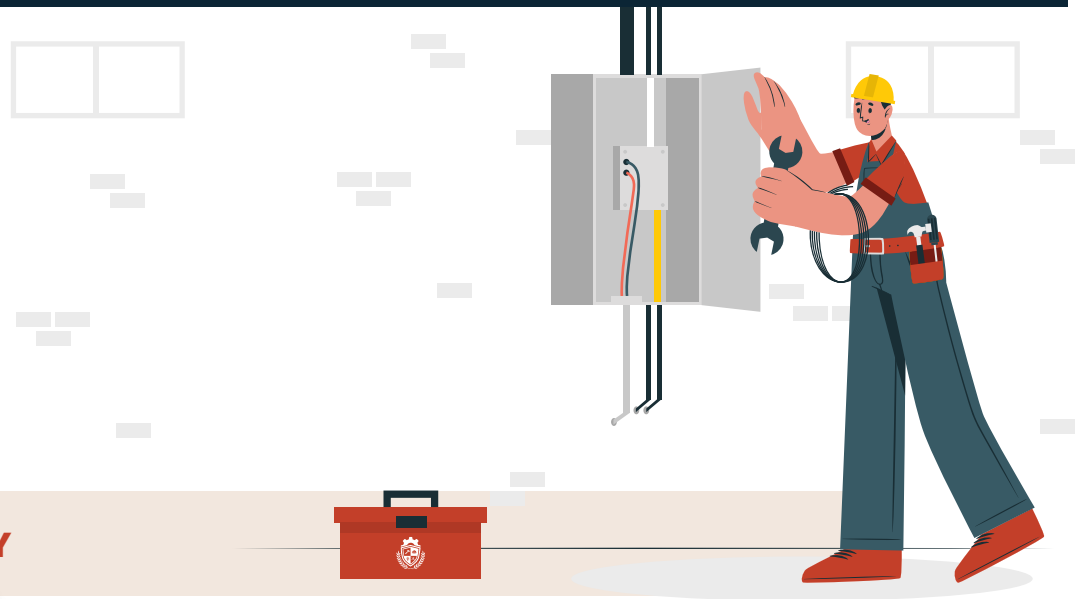


## PROGRAMME ACCREDITATION

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## PROGRAMME DELIVERY

**At NewGen Trade Schools, our students will complete the first two modules on a full-time basis, while completing their trade theory and practical learning modules at the trade school. The remaining modules will be completed on a part-time basis over the next 2 years.**



## COURSE SUMMARY

### Business Environment

In this unit, students will gain knowledge and understanding of the environment in which organisations operate. This will support understanding of the different and often complex contexts in which organisations function.

### How Businesses and Organisations Work

This unit will provide an overview of key aspects of business. Students will develop knowledge and understanding of business objectives and structure, customer service and resource requirements.

### Business Communication

The aim of this unit is to develop knowledge, skills and understanding of communication theory and the importance of effective communication in business.

## Working in Teams

This unit will provide an overview of key aspects of working with other people. Students will gain knowledge and understanding of teams and team roles. There is also an opportunity for students to develop their own employability skills.

## Market Research

The aim of this unit is to develop knowledge and understanding of key marketing principles and practices with a focus on market research. Students will apply the principles to complete a market research project. They will also develop their research skills by applying these to the completion of the chosen market research project.

## Introduction to Financial Controls in Business

Students will develop knowledge and understanding of budgets, budgetary control, costings, cash flow and basic ratio analysis. They will have the opportunity to construct simple budgets and cash flows.

## Leading and Managing People

Students will develop knowledge and understanding of the concepts, principles and skills needed to lead and manage people.

## Principles of Marketing and Sales

Students will develop knowledge and understanding of the principles of marketing and sales. Students will also begin to gain the skills required to undertake marketing activities. Students will have the opportunity to apply the principles and use the skills to complete a marketing mix plan.

## Human Resources

Students will develop knowledge and understanding of the HR function, including the recruitment, selection, retention, monitoring and development of employees.



## CAREER OPPORTUNITIES

Qualified tradespeople are in high demand in South Africa and internationally.

Our qualified students can:

- ✓ Be employed by one of our trade partners
- ✓ Establish their own business in their trade
- ✓ Seek international employment.

There are many opportunities for qualified tradespeople without being hindered by the restrictions of corporate or government employers who are bound to comply with many limiting criteria. Their futures are bright and promising and can take them anywhere in the world.



THE FUTURE OF WORK IS IN YOUR HANDS