TRAINING CENTRE & **TRADE TEST CENTRE:**
28 Hans Strydom Drive,
Monument park, Pretoria
Tel: 012 347 6414, Fax: 086 544 6932
PO Box 62, The Reeds, 0061
www.protechtraining.co.za
Accreditation:
ESETA: CETA
SSETA

2012 Learnership: National Certificate Electrical Engineering, NQF L2 Learnership Program

To become a qualified electrician, the student must be prepared to study for three approximately 3 years. There are three levels, below explains the procedure to follow:

1. 1st Level: NQF Level 2, 11 months
2. 2nd Level: NQF Level 3, 11 months
3. 3rd Level: NQF Level 4, 11 months
4. Trade Test Preparation, 15 days
5. Final: Trade Test , 2 days (Article 13)

The following program details are for the Entry level, NQF Level 2.

This learnership is provided during working hours from 8h00 – 16h00, and consists of practical-fundamental and "on job training"

This following table explains the procedure:

NQF Level	5 months in Training Center			WORK PLACE EXPERIENCE AT AN EMPLOYER 6 – 7 months
2	Theory	Practical	N2 subject	"On Job training"
3	Theory	Practical	N2 subject	"On Job training"
4	Theory	Practical	N2 subject	"On Job training"

IMPORTANT NOTE: Minimum requirements: Grade 10 with mathematics & science.
If the learner does not have Mathematics and Science, N2 Electrical will be provided in the second Level of the learnership and all students are welcome to apply.
Workplace- /on - job training will be the responsibility of all the parties involved. The price below is for the fundamental and practical training in the Protech Training centre.

"ON - JOB" TRAINING:

Protech Training and the student/client/parent will all be responsible to assist with finding an employer who will provide on-job training opportunities. Protech Training has Employers available in the area where the training is provided. This might be problematic as it might be costly for the learner to travel this far for a period of 6.5 months. Assistance is required from parents/students/sponsors in finding Employers in the area where the learner stay.

NEXT LEARNERSHIPS FOR 2012:

1. **16th January 2012**  **fully booked!**
2. **7th May 2012**
3. **3rd September 2012**

For more information please contact the office 012 347 6414

or 081 493 7046 during office hours.

COURSE OUTLINE of the 1st Level NQF L2

The OUTLINE below states the unit standards (fundamentals, core, and electives) to be presented by Protech Training and an employer during the above training period. ***The training period will be subject to change due to unit standard registration, end dates as possible well as recognition of prior learning (RPL) that will be conducted prior to course commencement.***

Learnership title: National Certificate- Electrical Engineering NQF level 2					Version. 01/2010 April	
SAQA ID	**63789**					
Core/ Fundamental/ Elective	**ID**	**UNIT STANDARD TITLE**	**CREDITS**	**Duration Days**	**PTT 40%**	**Employer (60%)**
Core	258925	Apply and maintain safety in a working environment	5	6	3	4
Core	258932	Apply soldering techniques	2	3	1	2
Core	258935	Design and construct a single phase circuit	5	6	3	4
Core	12466	Explain the individual`s role within business	4	5	2	3
Core	259017	Identify, inspect, clean and maintain electrical rotating machines	6	8	3	5
Core	258957	Identify, inspect, use, maintain and care for engineering hand tools	6	8	3	5
Core	258960	Install electric wire ways	6	8	3	5
Core	258942	Install luminaires	4	5	2	3
Core	258919	Install or replace electrical metering units or measuring instrument	4	5	2	3
Core	258921	Install, join and terminate Low Voltage cables and conductors	8	10	4	6
Core	258937	Install, maintain or replace Low Voltage distribution boards, protection devices and components	6	8	3	5
Core	258962	Maintain transformers	5	6	3	4
Core	9881	Mark off basic regular engineering shapes	6	8	3	5
Core	258918	Select, use and care for electrical measuring and testing instruments	4	5	2	3
Core	10255	Select, use and care for power tools	5	6	3	4
Core	258967	Understand fundamentals of electricity	8	10	4	6
Fundamental	119463	Access and use information from texts	5	6	3	4
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	3	4	2	2
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	3	4	2	2
Fundamental	9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	3	4	2	2
Fundamental	119454	Maintain and adapt oral/signed communication	5	6	3	4
Fundamental	119460	Use language and communication in occupational learning programmes	5	6	3	4
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	2	3	1	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	5	6	3	4
Fundamental	119456	Write/present for a defined context	5	6	3	4
Elective	258939	Carry out basic electric arc welding in an electrical environment	8	10	4	6
Elective	258920	Carry out basic gas welding, brazing and cutting in an electrical environment	8	10	4	6
Elective	12465	Develop a learning plan and a portfolio for assessment	6	8	3	5
Totals			142	178	71	107