



INSPECT-TEST-VERIFY-CERTIFY

Head Office
3 Hops Drive - Denver Park - George
PO Box 4008 - George East - 6539

Wynand Möller - 082 451 1009 - wynand@tdmi.co.za
Lynn Möller - 076 068 7667 - lynn@tdmi.co.za

INSTALLATION RULES

TDMI Training is accredited training providers of EWSeta and well respected as a reputable training facility.

TDMI Training provides specialized and personalized training solutions to the electrical industry. Our programs are developed in such a way as to allow delegate to meet the requirements of the Department of Labour, in terms of accreditation, as well as to provide him/her with the necessary tools and expertise to confidently go out and INSPECT and TEST electrical installations, using the knowledge and recourses available to you.

OUR MISSION:

- To provide excellent services to our students through people competence, sound business principles and innovations.
- To equip students with knowledge, skills and information to interpret codes, standards and legislation and thereby enabling them to conduct and record valid detail during electrical installations, inspections and tests.
- To help ensure a brighter future for learners through quality learning opportunities and enhancement of skills

OUR VALUES:

- Integrity** - We shall at all times be honest and transparent in our relationship with clients.
- Reliability** - We shall at all times honour our commitments given to clients.
- Product Quality** - We shall ensure that services rendered to clients are of exceptional high quality and in line with legal requirements.
- Client Service** - Clients shall receive excellent response times.
- Advice** - Value for money invested in processes and systems.

Our (TDMI's Training) program consists of:

- INSTAALLATION RULES:** Paper 1 and Paper 2 and/or
- UNIT STANDARDS:** Test, Inspect and Certify of Electrical Installation (George, Eden District and Naboomspruit, Limpopo)

as required by Department of Labour, to register for an **INSTALLATION ELECTRICIAN** (Wireman's License).



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Course Description: INSTALLLATION RULES Sans 10142

Our Installation Rules program prepares learner for the National exam, Paper 1 and Paper 2, on the Electrical Installation Regulations. This exam is required as part of the criteria by the Department of Labour to apply to become an installation electrician.

We cover all legal aspects (OSHACT), Applicable rules and Regulations (SANS 10142-1) are covered. With our prep, we cover the previous exam papers. All relevant code is also covered. Residential, Commercial and Industrial Installations are covered in the Installation Rules SANS 10142 course.

Course provided in George, Kathu, Durban, Bloemfontein, Limpopo and all over SA and Namibia.

George course on 4 x Saturdays and other rest of SA and Namibia – 4 consecutive weekdays. **GROUP BOOKINGS WELCOME.**

1. The following topics are covered by the Installation rules course:

- The Occupational Health and Safety Act (OSHACT, Act 85 of 1993)
- Electrical Installations Regulations 2009
- Electrical Machinery Regulations 2011
- Topics covered from SANS 10142-1 (Wiring of premises – Low voltage Installations):
- Scope of code
- Terminology used in the code
- Compliance of electrical equipment
- Fundamental requirements
- General circuit arrangements
- Current carrying capacity of conductors and cables
- Installations of conductors and cables
- Wire ways
- Distribution boards
- Protections
- Earthing and bonding of electrical Installations
- Lighting circuits
- Fixed appliance circuits
- Bathroom Installations
- Swimming pools and sauna Installations
- Construction and Demolition Site Installations
- Agricultural, caravan park and marina Installations



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- Medical Installations
- Temporary and extra-low voltage Installation
- Stage and Theatre Equipment
- Safety and Emergency Lighting
- Alternative supply (Generators, Solar, UPS, etc) Installations
- Visual Inspection and Electrical testing of Electrical installations
- Other relevant SANS code

2. Candidate will learn to:

- Use SANS 10142-1 as an Installation guide
- Determine earth continuity conductor size
- Use table to determine current carrying capacity of cables
- Calculation voltage drop of circuits
- Determine minimum cable size to be used for a circuit
- Determine maximum number of conductors in a conduit
- Determine the Loop Impedance and Prospective short circuit current at the point of installation

3. The Learner will be provided with:

- Learning material
- Reference material
- Old exam papers and memorandums
- Exam enrolment can be done at TDMI training at an additional fee of R850; alternatively, the learner may enrol his /her local FET College. SANS 10142-1 codes not provided by TDMI training.

4. Target audience

- Any person who intends to write Installation Rules Paper 1 & 2 exams as administered by the Department of Education on behalf of the Department of Labour.
- Have all the required codes and standards

5. Codes Required

- Occupational Health and Safety Act, Act 85 of 1993
- SANS 10142-1 2008
- SANS 10198-1:2004
- SANS 10198-2:2004
- SANS 10292:2001
- SANS 1973-3:2008

6. Course duration:

- George courses – Saturdays– 09:00 – 16:00 +
- Other provinces courses – consecutive weekdays– 09:00 – 15:00 +

7. Refreshments:

- Meals are not provided
- Coffee / Tea / Water / Snacks

8. Training cost:

OPTION 1: PREPARATION FOR EXAMS ONLY

(This option will prepare candidate for Installation rules P1 and / or P2 with the help of a facilitator. The program is conducted by means of part time course where the candidate will attend 2 x days 09:00 – 16:00. This includes working through previous exam papers): NO registration for exam or SANS codes included in this option – student responsibility.

Description:	Type:	Days	Time	Cost
PAPER 1: Training	Part Time	1 DAY	09:00 – 16:00	R1 500-00
PAPER 2: Training	Part Time	2 DAYS	09:00 – 16:00	R2 500-00

OPTION 2: Exam registration included (this option include registration for exam, extra learning material and preparation course):

Type	Description	Cost
Registration for exams P1	We register you for exams	Tba
Registration for exams P2	We register you for exams	Tba
Course PAPER 1	This option includes training/preparation for Installation rules PAPER 1 in respect of requirements with help of a facilitator. The program is conducted by means of part time course where the candidate will attend 1 x day from 9am to 4pm. (both options available – you can choose which you prefer). This option includes working through previous exam	R1 500
Course PAPER 2	This option includes training/preparation for Installation rules PAPER 2 in respect of requirements with help of a facilitator. The program is conducted by means of part time course where the candidate will attend 2 x days from 9am to 4pm. (both options available – you can choose which you prefer). This option includes working through previous exam	R2 500



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9. Registration for exam

- Registration for exam not included in costs in OPTION 1 – for student own account
- Registration for exams included in OPTION 2

10. Enrolment for course

- Please contact office – 076 068 7667 for registration and dates of Installation rules

11. Codes required:

- Occupational Health and Safety Act, Act 85 of 1993 – TDMI provide
- **Codes not included in cost of course or exam registration:**
- **Codes are essential in preparation for exams**
- **Following codes can be ordered from SABS @ 50% discount with exam registration number:**
- SANS 10142-1 2008 -
- SANS 10198-1:2004
- SANS 10198-2:2004
- SANS 10292:2001
- SANS 1973-3:2008

For further enquiries, please contact Lynn Möller 076 068 7667 / lynn@tdmi.co.za or Wynand Möller 082 4511 009 / wynand@tdmi.co.za

Thank you,

TDMI Training