



**SOUTH AFRICAN COUNCIL FOR PROFESSIONAL AND
TECHNICAL SURVEYORS**

ESTABLISHED IN TERMS OF ACT 40 OF 1984

**SUID-AFRIKAANSE RAAD VIR PROFESSIONELE EN
TEGNIесе OPMETERS**

INGESTEL INGEVOLGE WET 40 VAN 1984

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**NOTES FOR GUIDANCE FOR REGISTRATION AS A
SURVEYOR IN THE ENGINEERING CATEGORY**

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1. INTRODUCTION

These notes which have been approved by the South African Council for Professional and Technical Surveyors, have been compiled with a view to assisting persons who intend qualifying for registration as a Surveyor (Engineering) provided for in terms of the Professional and Technical Surveyor's Act, 40/1984. Adherence to the requirements as set out below will assist the candidate materially in avoiding unnecessary delays.

2. GENERAL

- 2.1 After being registered as an Engineering Survey Technician and acquiring a minimum of three (3) years prescribed practical experience a candidate may apply to be registered as an Engineering Surveyor (Technologist).
- 2.2 The scrutinising process that follows 2.1 above will involve a personal oral examination. If in the opinion of Council the practical experience is insufficient, a trial survey or equivalent practical test has to be completed. This will be followed by a Law examination.
- 2.3 An Engineering Surveyor may describe himself or herself as such, use the appropriate letters S(SA) after his or her name and perform engineering survey work unsupervised. He or she may also supervise and certify the work of Engineering Survey Technicians.

3. REQUIREMENTS.

- 3.1 Registration as an Engineering Survey Technician (See Item 2 above)
- 3.2 Full details of the prescribed practical experience in the form of two (2) copies of evidence of Work Integrated Learning (**ANNEXURE A**) certified by a Commissioner of Oaths.
- 3.3 A law examination as outlined in Section 7
- 3.4 The relevant application form completed before a Commissioner of Oaths.

4. PROCEDURE.

- 4.1 An application form to register as an Engineering Surveyor (Technologist) to be submitted to the Registrar with the prescribed application fee.
- 4.2 The Registrar forwards the application to the Convenor of the regional Technical Registration Committee who will evaluate the experience.
- 4.3 The candidate will be notified of the date, time and place for an oral examination by the regional Technical Registration Committee.
- 4.4 This oral examination will test his or her overall grasp of a broad range of surveying knowledge and practice and assess the candidate's ability to recognise, define and solve practical problems. It will also probe the candidate's powers of effective communication and seek an awareness of the role and responsibilities that surveyors have in society.

- 4.5 Once the candidate has passed the oral examination/trial survey, he/she will be advised by the Registrar and he/she may then apply to write the a law examination at the next sitting.

Candidates are advised to bring a portfolio of current work in support of Annexure A which has been submitted to the Registrar to the oral examination with statements or references from persons who have supervised the candidates work.

- 4.6 Should there be any doubt with regard to the candidate's ability or level of competence, the Technical Registration Committee will set a **Trial Survey** on any one, or a combination of the following surveying aspects:

- Triangulation / GPS network for engineering applications
- Three dimensional monitoring of structures
- Metrological surveying (Measurements in an industrial environment)
- Hydrographical surveying
- Photogrammetry
- Cadastral surveying
- Engineering surveying and/or Construction surveying
- GIS and/or spatial data management.

The candidate will be notified by the Convenor of Technical Registration Committees of the exact task and requirements for a Trial Survey and will be given supporting data and documentation where relevant.

The Trial Survey must be finalised within three months and all surveying records, calculations and reports returned to the Convenor of the Technical Registration Committee for evaluation.

- 4.7 If considered necessary, the candidate will be notified of the date, time and place of a second oral examination for re-evaluation by the Technical Registration Committee.
- 4.8 When scrutinising is complete the Convenor notifies the Registrar of the decision and returns all documents. The Convenor also issues a certificate certifying that the candidate has passed, failed or been exempted from the Trial Survey.
- 4.9 The Registrar notifies the candidate of the outcome of the application and, if successful, sends the relevant registration form and Oath/Affirmation form for completion and submission for registration together with the required fee.
- 4.10 If the application is not successful, the candidate may re-apply for the Engineering Surveyor Category, but only after the passage of six months. New application fees are then payable.

5. PRESCRIBED TRAINING OF PRACTICAL EXPERIENCE FOR REGISTRATION AS AN ENGINEERING SURVEYOR (TECHNOLOGIST) IN THE REGISTER PROVIDED FOR BY SECTION 7(4)(B) OF ACT NO. 40 OF 1984.

A mentor must be a registered, practising Professional Surveyor who has been practising as such for a minimum period of five years. Provided that the Council may, on written application by the mentor, relax the requirement of the five years' experience.

It is provided further that where the experience to be gained is in a field of expertise that could not normally be obtained under the guidance of a Professional Engineering or Land Surveyor then, with the consent of the Council, such experience may be obtained under the personal supervision of a suitably qualified person.

Every mentor must provide, directly to the Council, a confidential written assessment on the competency of the candidate which assessment must include, inter alia, the type of experience gained by the candidate while in his or her employ, with emphasis on the professional aspects such as dealings with clients, attitude to senior and subordinate co-workers and assistants, punctuality and reliability and management skills acquired.

A person who has been found guilty of improper conduct or is practising under threat of a suspended sentence may not act as a mentor.

- 5.1 The period of training in the form of practical experience as prescribed in the Rules is three (3) years after registration as a Survey Technician. The nature of such training and experience is as set out in Paragraphs 5.2, 5.3, 5.4, 5.5, 5.6 and 5.7 and is controlled by the Council.

Any candidate wishing to register as an Engineering Surveyor must be registered as an Engineering Survey Technician during his or her years of consequent practical training.

On completion of the three years practical training it will be expected of the candidate to write an examination on the laws that are related to surveying and undertake an oral Examination to the satisfaction of the Council.

- 5.2 The major proportion of work undertaken during this period must be in at least three of the types of surveys listed in the Schedule of Work as set out in **ANNEXURE A**, and must include experience in each of the options. The experience must be varied and be obtained working with or for registered persons or person approved by Council. The results of these surveys will not be readily available to the Council, and the candidate will have to submit a detailed report on each major undertaking, together with his/ her Schedule of Work as set out in **ANNEXURE A**.
- 5.3 Cadastral Surveys include all office work normally undertaken prior to the approval of survey records by the Surveyor-General.
- 5.4 The work undertaken for Topographical Surveys may, in addition to ground surveys, include Aerial and Lidar Surveys.
- 5.5 For Engineering/Construction Surveys the work should include structural deflection determinations, setting out works for road, railways, sewer, bridge and other construction works, the monitoring of excavations for large buildings and the subsequent control of the building operations; three-dimensional surveys of buildings; surveys of quarries; determination of quantities and volumes; and all other extensive engineering works. It should be noted that levelling and contour surveys of an elementary nature will not be accepted as adequate training and experience.
- 5.6 It is recognised that for any Cadastral, Topographical or Engineering Survey a certain amount of Control Survey is required, and this sort of survey work can be included under Control Surveys in the schedule, provided the standard of accuracy of such

work is equal to or better than Class A as defined in Regulation 11(1) of the Survey Regulations framed in terms of the Land Survey Act, No 8 of 1997.

- 5.7 A minimum of 30 days of training is required in the area of spatial data management. This may include the use and application of Geographical or Land Information Systems as well as the capture, display, manipulation and delivery of spatial information in a digital form. The training may be with a Professional Surveyor, Professional Engineer, Engineering Surveyor, company, government department, local authority, or an organisation doing such work.
- 5.8 An essay of not less than 1500 words, covering the domains of Professional Practice and Ethics, has to be submitted with each application.

6. TRAINING AND/OR EXPERIENCE SCHEDULE FOR CANDIDATES WISHING TO QUALIFY AS ENGINEERING SURVEYORS.

When applying to the Council for registration, the candidate shall supply a copy of **ANNEXURE A** as an extract from the diary and prepared in the form of the attached Specimen. This schedule must be compiled in chronological order and each page must be signed by the mentor, with whom the candidate has trained, as well as the candidate.

7. PLATO LAW EXAMINATIONS

Refer to a separate document on all PLATO Law Examinations obtainable from the Registrar

N.B. Most of the relevant legislation can be down-loaded from the following websites:

www.plato.org.za

www.polity.org.za/govdocs/legislation

Alternatively, copies could be obtained from:

Butterworths Professional Publishers, P O Box 4, Mayville, 4058.

Contact tel. No's:

Johannesburg	011-784-8009
Durban	031-2683111
Cape Town	021-5558900

8. COMPLETION OF REGISTRATION PROCEDURE

- 8.1 The candidate will be informed of the time, date and place of an oral examination. The Convenor of Technical Registration Committees will notify the Registrar in regard to the acceptance, or otherwise, of the application. If successful the candidate will be required to write the Law Exam(s).
- 8.2 The Registrar will notify the candidate that he or she complies with either the requirements of Section 22(1)(a)(i), (ii) and (iii) or Section 22(1)(b)(i), (ii) and (iii) of Act No. 40 for 1984 and will request him or her to make (in terms of Section 22(1)(a)(iv) or Section 22(1)(b)(iv) of the Act) an oath or affirmation in relation to his or her calling. The relevant registration fees will also be required.
- 8.3 When these formalities have been completed the candidate will be registered as an Engineering Surveyor (Technologist) with the Council.

WORK INTEGRATED LEARNING FOR SURVEYORS (ENGINEERING)

NAME (Block Letters).....

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DATE	TASK DESCRIPTION	COMPULSORY TRAINING												ADDITIONAL TRAINING							
		Triangu- ation/GPS		Levelling Spirit/Trig		Traversing		Computer Data Processing		Topo/ Photo Surveys		Eng/ Const Surveys		Cadastral Surveys		Control Surveys		Precise Eng Surveys		Other (Specify)	
		Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF	Field	OFF
	Brought Forward																				
	TOTALS																				

Each page must be signed by the Supervisor(s) and the candidate OFF - Office (includes calculations, draughting and admin work)

Mentor signature:

Date:

Print name:.....

PLATO registration:

Candidate signature:

Date: