

TSMA Academy



SURVEYING TRAINING

Department of Engineering Surveying

TSMA is presenting the SAQA registered National Certificate in Surveying. The unit standards covering the qualification are clustered together into twelve one-week modules at a rate of one module per month, meaning the qualification will be presented over a period of one year.

Learner Assessment

At the beginning of each module, the learner will write a pre-training test to determine the existing surveying knowledge of the learner. The difference between the pre-training test and the final course mark will be defined as the knowledge gained during the module and will be expressed as a percentage.

To be found competent for a specific module the learner must achieve a final mark of at least 50%. The final mark will be calculated using a weighted average between the practical surveying assignments (60%) and the final written test (40%), as the emphasis of a NQF level 4 qualification is on skills development so that the learner can be employed productively in the workplace.

The learners will also keep a surveying log book (portfolio of evidence) of experience gained in the workplace, which will be assessed by the assessors and moderators of TSMA in order to gain the necessary credits to complete the qualification.

Learners must achieve at least 60% in Module 3: Basic Surveying Mathematics, before they will be allowed to proceed with the further modules. It is preferred that the modules are completed in the module number order, because it is the most logical order and knowledge gained in the previous modules will be needed in the follow-up modules.

Short Learning Programmes

Each module can also be seen as a short learning programme for learners who do not want to complete the whole qualification. Each module has been structured in such a way that it will cover a specific surveying process to enable the learner to be productive in the workplace in that specific surveying process.

Learning Material and Stationary

TSMA will provide all necessary stationery, learning material, calculators, drawing instruments, surveying equipment, food and refreshments needed by the learner to complete the module successfully - these items are included in the course fees.

Training and Accommodation Venues

The course venue will be at Sundown Lodge, just north of Pretoria. A limited number of accommodation places are available at an additional cost. It is necessary to book well in advance to avoid disappointment. Various other accommodation options are available nearby.

Course and Accommodation Fees

Course fees is R1 250,00 per learner per day and accommodation is available at R360,00 (Sharing) and R450,00 (Single) per learner per night. (EXCLUDING VAT)

For more information and registration contact:

Kobus Bezuidenhout

M. Dip. Tech: Surveying (TUT)

Cell: 079 515 7540

Fax: 086 512 8347

E-mail: kobus@tsma.co.za

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COURSE DATES 2010



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Course Dates: National Certificate in Surveying

The full National Certificate in Surveying qualification consists of the following twelve modules listed below:

Supplementary Courses

Supplementary modules will be presented to learners who were found not yet competent in previous modules, or learners who were not able to attend some of the previous modules or learners who wish to complete the modules in a shorter timeframe. Space available on these supplementary modules is very limited and bookings should be made well in advance.

Course Dates: National Certificate in Surveying

National Certificate Surveying	Group 2	Group 3	Group 4
Mod 1: Differential Control Levelling			25 Jan to 29 Jan 2010
Mod 2: Construction Levelling			22 Feb to 26 Feb 2010
Mod 3: Basic Surveying Mathematics		30 Nov to 04 Dec 2009	15 Mar to 19 Mar 2010
Mod 4: Traversing I		12 Apr to 16 Apr 2010	12 Apr to 16 Apr 2010
Mod 5: Tacheometry	11 Jan to 15 Jan 2010	11 Jan to 15 Jan 2010	10 May to 14 May 2010
Mod 6: Mapping I	01 Feb to 05 Feb 2010	01 Feb to 05 Feb 2010	31 May to 04 Jun 2010
Mod 7: Traversing II / Setting Out			
Mod 8: Mapping II / Model Maker	08 Mar to 12 Mar 2010		
Mod 9: Triangulation I	23 Nov to 27 Nov 2009		
Mod 10: Triangulation II			
Mod 11: Statistics & Fin. Management			
Mod 12: Technical Reporting			

Course Dates: Short Learning Programmes

Short Learning Programme	Dates
Geometric Geodesy: Map Projections and Co-ordinate Systems	
Cadastral (SG) Diagrams and Co-ordinate Calculations, Conversions & Transformations	
Advanced GPS Surveying	
Introduction to Map and Plan Reading	
Surveying Assistant Training	
Google SketchUp	
AutoCAD Essentials	
AutoCAD 3D Drawing and Modeling	
MicroStation	

Outstanding course dates will be made available in due course.

Feel free to forward this email to any person that might be interested in the above mentioned training opportunities.