

SA COUNCIL FOR PROFESSIONAL AND TECHNICAL SURVEYORS

PROPOSED MODEL FOR MINIMUM QUALIFICATION REQUIREMENTS FOR REGISTRATION AS A TECHNOLOGIST

To be used in conjunction with subject area content specifications

One lecture is considered to be 45 – 60 minutes in length

Subject area teaching may be included in more than one course

		ES			GIST			MS	
	SUBJECT AREA	Lect.	%		Lect.	%		Lect.	%
		ES			GP(T)			MS	
		Lect.	%		Lect.	%		Lect.	%
	Common Subject Areas								
1	Mathematics and Applied Mathematics	125	14		75	8		125	14
2	Physics	50	6		20	2		50	6
3	Basic Surveying and Engineering Surveying	150	17			0		150	17
4	Information Technology	50	6		20	2		50	6
5	Geo-spatial Information Science	25	3		60	7		25	3
6	Photogrammetry and Remote Sensing	50	6		60	7		0	0
7	Coordinate Systems and Map Projections	50	6		120	13		25	3
8	Adjustments, Error Theory and Statistics	75	9			0		50	6
9	Earth and Environmental Science	25	3			0		0	0
10	Business and Project Management	25	3		40	4		50	6
11	Professional Practice and Ethics	25	3		50	6		25	3
12	Category Specific Research Project	50	6		25	3		50	6
	Subtotal Common Subject Areas	700	78		470	52		600	67

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		Lect.	%		Lect.	%		Lect.	%
	continued from page 1								
	Category specific Subject Areas								
13	Cadastral Studies and Land Tenure		0			0		0	0
14	Geodesy and Satellite Surveying	50	6			0		0	0
15	Precise Engineering Surveying	50	5			0		25	3
16	3D Modelling /Cartography/visualisation	50	5		25	3		25	3
17	Mineral Management					0		50	6
18	Mineral Valuation/evaluation/statistics					0		100	11
19	Mining Geology					0		50	6
20	Rock Mechanics					0		50	6
21	Data Aquisition (From Primary and Secondary Sources inc Surveying, GPS etc.				50	6			0
22	Geographic Science				75	8			0
23	Selected Core Themes and electives				180	20			0
	Subtotal not-common core	150	16		330	37		300	33
24	Further time for electives	50	6		100	11			0
	Total	900	100		900	100		900	100