

**SA COUNCIL FOR PROFESSIONAL AND TECHNICAL SURVEYORS**  
**GUIDLINES FOR MINIMUM QUALIFICATION REQUIREMENTS FOR MINE SURVEY REGISTRATION**

**To be used in conjunction with subject area content specifications**

Date Approved: April 2015

**One credit is considered to be 10 hours of notional learning**

**Subject area teaching may be included in more than one course**

**10% leeway per subject area is allowed as long as there is no material impact on the qualification**

SUBJECT AREA		Technician		Mine Surveyor		Professional	
		NQF LEVEL 6		NQF LEVEL 7		NQF LEVEL 8	
		Credits	%	Credits	%	Credits	%
1	Mathematics, Applied Mathematics and statistics	36	15	48	13	48	10
2	Physics	6	3	24	7	24	5
3	Mine Surveying	48	20	60	17	60	13
4	Information Technology	24	10	24	7	24	5
5	Geographical Information Science	6	3	12	3	18	4
6	Photogrammetry and Remote Sensing				0	12	3
7	Coordinate Systems and Map Projections	12	5	12	3	24	5
8	Adjustments, Error Theory and Statistics	6	3	12	3	30	6
9	Earth and Environmental Science				0	12	3
10	Business and Project Management	6	3	12	3	12	3
11	Professional Practice and Ethics	6	3	12	3	12	3
12	Category Specific Project/Research	30	13	30	8	30	6
13	Cadastral Studies and Land Tenure				0	6	1
14	PreciseMine/ Engineering Surveying			12	3	30	6
15	Mine Planning (3D Modelling /Cartography/visualisation)	12	5	12	3	18	4
16	Mineral Management			12	3	18	4
17	Mine Sampling	18	8	18	5	18	4
18	Mineral Valuation/evaluation/statistics	12	5	18	5	36	8
19	Mining Geology	18	8	24	7	24	5
20	Rock Engineering		0	18	5	24	5
	<b>Total</b>	<b>240</b>	<b>101</b>	<b>360</b>	<b>100</b>	<b>480</b>	<b>100</b>