

EB8.10.5.1 Purpose of the qualification

The purpose of the Bachelor of Mine Surveying Honours is that it prepares students with the competencies required for industry and research in the mine surveying sector. The programme also allows students to meet the educational requirements needed for registration in the category Professional Geometrician (Mine Surveying).

EB8.10.5.2 Qualification outcomes and assessment criteria

The content, curriculum and exit level outcomes (ELO) are scrutinized by industry and accredited by SAGC to ensure conformance and standards are maintained in the new programme.

- Demonstrate competence to identify, formulate, analyse and solve complex mine surveying problems creatively and innovatively.
- Demonstrate competence to apply knowledge of mathematics, natural science and engineering sciences to the conceptualization of engineering models and to solve complex mine surveying problems.
- Demonstrate competence to perform creative, procedural and non-procedural design and synthesis of components, systems, mine surveying works, products or processes of a complex nature.
- Demonstrate competence to conduct investigations of complex mine surveying problems including engagement with the research literature and use of research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
- Demonstrate competence to use appropriate techniques, resources, and modern engineering tools, including information technology, prediction and modelling, for the solution of complex mine surveying problems, with an understanding of the limitations, restrictions, premises, assumptions and constraints.
- Demonstrate competence to communicate effectively, both orally and in writing, with mine surveying audiences and the community at large.
- Demonstrate knowledge and understanding of the impact of mine surveying activities society, economy, industrial and physical environment.
- Demonstrate knowledge and understanding of mine surveying management principles.
- Demonstrate competence to engage in independent and life-long learning through well-developed learning skills.
- Comprehend and apply ethical principles and commit to professional ethics, responsibilities and norms of mine surveying practices.

EB8.10.5.3 Admission requirements and selection criteria

A Bachelor's Degree or Advanced Diploma in Mine Surveying, at NQF level 7.

EB8.10.5.4 Conferment of degree

One year full-time.

EB8.10.5.5

CODE	MODULE	CODE	MODULE
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Curriculum

First year

Year Modules		Year Modules	
ADQ8X00	Advanced Descriptive Quantification	PLE8X00	Property Law and Economics
CLA8X00	Construction Law & Contract Administration	QMS8X00	Strategic Management
CMP8X00	Construction Project Management	QRP8X00	Research Report: Quantity Surveying
CPP8X00	Professional Practice	SCI8X00	Sustainable Construction and Innovation
ICC8X00	International Construction		

