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## Graduate Degree Mapping

Competency Frameworks

*Surveyors Act 2003 s 39*

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## Mapping Qld Programs to the Competency Table for Surveying Graduate

Element	AssocDegSpSc	BSpScTech	BSpSc	BUrbDev
<b>Unit 1: Professional Practice</b>				
1.1 Undertake a program of tertiary education	x	✓	✓	✓
1.2 Advance the science of surveying and the image of surveyors	x	+I	✓	✓
1.3 Fulfil community service obligations	x	+I	✓	✓
1.4 Follow an accepted code of professional conduct and ethics	x	✓	✓	✓
1.5 Undertake a program for personal professional development and continuing education	✓	✓	✓	✓
1.6 Understand and apply sustainable development and environmental principles	x	✓	✓	✓
1.7 Accept responsibility for professional activities	x	+I	✓	✓
<b>Unit 2: Collection of Data and Information</b>				
2.1 Collect data by measurement	✓	✓	✓	✓
2.2 Search and acquire existing data	✓	✓	✓	✓
2.3 Use modern surveying technologies to collect data	✓	✓	✓	✓
<b>Unit 3: Management of Data and Information</b>				
3.1 Process data to accepted standards and for specific requirements	✓	✓	✓	✓
3.2 Convert data from one system or format to another	✓	✓	✓	✓
3.3 Administer electronic and physical data bases	✓	✓	✓	✓
3.4 Analyse, evaluate and interpret data	x	✓	✓	✓
3.5 Process data to create information	x	✓	✓	✓

✓ - Fulfils element, x - Does not fulfil element, +E - Fulfils theoretical knowledge requires confirmation by experience, +I - Fulfils theoretical knowledge requires confirmation by interview

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<b>Unit 4: Presentation of Information</b>				
4.1 Assemble data into specific data or information sets	✓	✓	✓	✓
4.2 Compile and produce maps, plans and charts and photographs	✓	✓	✓	✓
4.3 Provide digital spatial information	✓	✓	✓	✓
4.4 Produce models	✓	✓	✓	✓
4.5 Formally present information orally to client, government agencies and public forums	✓	✓	✓	✓
4.6 Prepare reports	✓	✓	✓	✓
4.7 Certify data	✓	✓	✓	✓
4.8 Provide advisory services	+I	+I	+I	+I
<b>Unit 5: Business Management and Supporting Quality Assurance Programs</b>				
5.1 Plan, organise, direct and control tasks, people and other resources	✗	✗	✓	✓
5.2 Apply project management principles	✗	✗	✓	✓
5.3 Apply self management principles	+E	+E	✓	✓
5.4 Apply quality assurance principles	✓	✓	✓	✓
5.5 Implement projects	+E	+E	✓	✓
<b>Unit 6: Communications</b>				
6.1 Communicate effectively	✓	✓	✓	✓
6.2 Present, promote, report on and advocate ideas on surveying and allied areas of practice	✓	✓	✓	✓
6.3 Prepare and comprehend surveying documents	+E	+E	✓	✓
6.4 Comprehend, report on and discuss relevant legal matters	✗	✓	✓	✓
6.5 Collaborate with colleagues and other interested parties	✓	✓	✓	✓
6.6 Use professional expertise to contribute to the processes that shape society	✗	✓	✓	✓

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<b>Unit 7: Spatial Reference Systems and Core Data Bases</b>				
7.1 Use geodetic reference systems	✓	✓	✓	✓
7.2 Establish subsidiary networks	✗	✓	✓	✓
7.3 Integrate spatial reference systems with fundamental physical and cultural data and manage core databases	✓	✓	✓	✓
7.4 Accredited spatial data standards	✓	✓	✓	✓
7.5 Perform geodetic calculations	✗	✓	✓	✓
7.6 Transform co-ordinates	✗	✓	✓	✓
7.7 Make precise observations	✓	✓	✓	✓
<b>Unit 8: Land Administration and Property Development</b>				
8.1 Advise on land tenure and existing land tenure systems	✓	✓	✓	✓
8.2 Contribute information and advice to facilitate the administration, control and development of land resources	✗	✓	✓	✓
8.3 Support sustainable land development	✗	✓	✓	✓
8.4 Provide advice on financial implications of land development	✗	+E	✓	✓
8.5 Provide design services to optimise land development and encourage sustainable land use.	+E	+E	✓	✓
8.6 Undertake cadastral surveys	✓	✓	✓	✓
8.7 Prepare and manage planning applications	✗	✓	✓	✓
<b>Unit 9: Controlling the Location of Developments</b>				
9.1 Control and locate engineering works, development projects, and the building or installation of structures and machines.	✓	✓	✓	✓
9.2 Control and measure the extraction of minerals and other materials.	✓	✓	✓	✓
9.3 Establish quality control systems	✗	✗	✓	✓
9.4 Monitor the position, shape and size of structures, land forms and sea beds	+E	✓	✓	✓

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<b><i>Unit 10: Research, Development and Commercialisation</i></b>				
10.1 Perform research	x	x	✓	✓
10.2 Formulate methods and ideas for development	x	x	✓	✓
10.3 Identify and seek resources to further research and development.	x	x	✓	✓
10.4 Carry out market research	x	x	✓	✓
10.5 Commercialise research outcomes	x	x	✓	✓

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