



Surveyor Degree Mapping

Competency Frameworks

Surveyors Act 2003 s 39

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Version Control

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Mapping Queensland Programs to the Competency Table for Surveyor

Element	AssocDegSpSc	BSpScTech	BSpSc	BUrbDev
<i>Unit 1: Professional Practice</i>				
1.1 Undertake a program of tertiary education	x	✓	✓	✓
1.2 Advance the science of surveying and the image of surveyors	x	x	+I	+I
1.3 Fulfil community service obligations			✓	✓
1.4 Follow an accepted code of professional conduct and ethics	x	x	✓	✓
1.5 Undertake a program for personal professional development and continuing education	+E	+E	✓	✓
1.6 Understand and apply sustainable development and environmental principles	x	✓	✓	✓
1.7 Accept responsibility for professional activities	x	+E +I	✓	✓
1.8 Accept responsibility for workplace health and safety	x	x	✓	✓
<i>Unit 2: Collection of Data and Information</i>				
2.1 Collect data by measurement	✓	✓	✓	✓
2.2 Search and acquire existing data	x	x	+E	+E
2.3 Use modern surveying technologies to collect data	✓	✓	✓	✓
<i>Unit 3: Management of Data and Information</i>				
3.1 Process data to accepted standards and for specific requirements	+E	+E	+E	+E
3.2 Convert data from one system or format to another	+E	+E	+E	+E
3.3 Administer electronic and physical data bases	+E	+E	+E	+E
3.4 Analyse, evaluate and interpret data	x	+E	+E	+E
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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Unit 4: Presentation of Information				
4.1 Assemble data into specific data or information sets	✓	✓	✓	✓
4.2 Compile and produce maps, plans and charts and photographs	+E	✓	✓	✓
4.3 Provide digital spatial information	+E	+E	+E	+E
4.4 Produce models	✓	✓	✓	✓
4.5 Formally present information orally to client, government agencies and public forums	+E	+E	✓	✓
4.6 Prepare reports	+E	+E	✓	✓
4.7 Certify data	+I	+I	+E	+E
4.8 Provide advisory services	x	x	x	x
Unit 5: Business Management and Supporting Quality Assurance Programs				
5.1 Plan, organise, direct and control tasks, people and other resources	x	x	+E	+E
5.2 Adopt sound business practices, including economic planning, financial management and compliance with legal requirements	x	x	+E	+E
5.3 Manage human resources	x	x	+E	+E
5.4 Train and develop subordinates in the work place	x	x	x	x
5.5 Apply project management principles	x	x	+E	+E
5.6 Apply self management principles	x	x	✓	✓
5.7 Apply quality assurance principles	x	x	+E	+E
5.8 Implement projects	x	x	+E	+E
Unit 6: Communications				
6.1 Communicate effectively	✓	✓	✓	✓
6.2 Present, promote, report on and advocate ideas on surveying and allied areas of practice	+E	+E	✓	✓
6.3 Prepare and comprehend surveying documents	x	x	+E	+E
6.4 Comprehend, report on and discuss relevant legal matters	x	+E	✓	✓
6.5 Collaborate with colleagues and other interested parties	+E	+E	+E	+E
6.6 Use professional expertise to contribute to the processes that shape society	x	+E	✓	✓

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Unit 7: Spatial Reference Systems and Core Data Bases				
7.1 Use geodetic reference systems	✓	✓	✓	✓
7.2 Establish subsidiary networks	✗	✓	+E	+E
7.3 Integrate spatial reference systems with fundamental physical and cultural data and manage core databases	+E	+E	+E	+E
7.4 Accredited spatial data standards	✓	✓	✓	✓
7.5 Maintain and manage core data bases	+I	+I	+I	+I
7.6 Perform geodetic calculations	✗	✓	✓	✓
7.7 Transform co-ordinates	✗	✓	✓	✓
7.8 Make precise observations	✓	✓	✓	✓
Unit 8: Land Administration and Property Development				
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	+E
8.5 Provide design services to optimise land development and encourage sustainable land use.	✗	✗	+E	+E
8.6 Manage properties and property development	✗	✗	+E	+E
8.7 Undertake cadastral surveys	+E	+E	+E	+E
8.8 Prepare and manage planning applications	✗	+E	+E	+E
Unit 9: Controlling the Location of Developments				
9.1 Control and locate engineering works, development projects, and the building or installation of structures and machines.	+E	+E	+E	+E
9.2 Control and measure the extraction of minerals and other materials.	✓	✓	✓	✓
9.3 Establish quality control systems	✗	✗	+E	+E
9.4 Monitor the position, shape and size of structures, land forms and sea beds	+E	✓	✓	✓

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Unit 10: Research, Development and Commercialisation				
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	✓	✓
Unit 11: Education and Training				
11.1 Contribute to the development of surveying education.	x	x	x	x
11.2 Assist in conducting surveying education	x	x	x	x
11.3 Develop and conduct training programs	x	x	x	x

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