

QUEENSLAND MAPPING GUIDE

To support implementation of the

**RII06 V1.0
Civil Construction
Training Package
In Queensland**

Document Version 1.0



March 2008

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ACKNOWLEDGMENT:

The Queensland Mapping Guide for the RII06 Civil Construction Training Package is adapted by Product Services, Department of Education, Training and the Arts Queensland, from an original Implementation Guide produced by the Office of Post Compulsory Education, Training and Employment, Government of Victoria.

INTRODUCTION

The purpose of this Mapping Guide is to assist teachers, trainers, assessors, administrators and employers to understand how the R1106 Civil Construction Training Package replaces previously accredited courses and previous training modules in Queensland.

The National Training Package initiative is funded by the Department of Education, Employment and Workplace Relations and has the support of all State and Territory Governments. It details national specifications for the achievement of competencies and qualifications for an industry or industry sector.

The principal specifications, or *endorsed components*, in the National Training Package are:

- **competency standards** which define the skills needed to fulfil particular functions in the industry;
- **a framework of qualifications** which align with occupations, or occupational levels, in the industry (a qualification is comprised of certain units of competency 'packaged' together);
- **assessment guidelines** which define how a person is deemed to be competent, and thus eligible to receive a particular qualification or Statement of Attainment for individual units of competency.

Training Packages bring to vocational and technical education an emphasis on workplace-focussed assessment. Assessment and the granting of an award are no longer subject to curriculum specifications. With National Training Packages, assessment may be conducted either in a work setting or a simulated work environment and must align directly with the industry-defined competency standards.

Note: This Guide is designed to be read in conjunction with the endorsed components of the R1106 Civil Construction Training Package. It does not contain the complete content of the national Package and should not be regarded as the primary source of reference in place of the Package itself.

WHERE TO OBTAIN THE R1106 CIVIL CONSTRUCTION TRAINING PACKAGE

The R1106 Civil Construction Training Package may be purchased from:

Technical and Vocational Education and Training Australia Limited (TVET)

Level 21
390 St Kilda Road
MELBOURNE VIC 3004

Tel: 03 9832 8100

Fax: 03 9832 8199

Website: <http://www.atpl.net.au>

OR SkillsDMC National Industry Skills Council

Suite 2, Level 7
36 Carrington Street
SYDNEY NSW 2000

Tel: 02 9299 3014

Fax: 02 9299 3015

Email: skillsdmc@skillsdmc.com.au

Website: <http://www.skillsdmc.com.au>

Training Packages can also be downloaded from the National Training Information Service: <http://www.ntis.gov.au>.

OVERVIEW OF THE R1106 CIVIL CONSTRUCTION TRAINING PACKAGE

The following table presents an overview of the main characteristics of the R1106 Civil Construction Training Package.

Industry Sectors	Civil Construction <ul style="list-style-type: none"> • Resources and Infrastructure Operations • Civil Construction Operations • Civil Construction Supervision • Civil Construction Design • Civil Construction Management • Leading Hand 								
Levels (and Numbers) of Qualifications	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Certificate I</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Certificate IV</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Diploma</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Advanced Diploma</td> <td style="text-align: right;">2</td> </tr> </table>	Certificate I	1	Certificate IV	3	Diploma	2	Advanced Diploma	2
Certificate I	1								
Certificate IV	3								
Diploma	2								
Advanced Diploma	2								
National Advisory Body	SkillsDMC National Industry Skills Council								
Endorsement	National Quality Council Initial Endorsement Date: 14 July 2006								
Publication/Release Date	14 July 2006								
Apprenticeships and Traineeships	Funding levels and agreements for Apprenticeships and Traineeships are subject to confirmation by the Queensland Department of Education, Training and the Arts.								

R1106 CIVIL CONSTRUCTION TRAINING PACKAGE QUALIFICATIONS

The following table presents a summary of the qualifications in the R1106 Civil Construction Training Package. Refer to the Qualification Framework of the R1106 Civil Construction Training Package for rules on how units of competency are combined for each qualification.

National Code	National Qualification Name	Nominal Hours	New Qual
R1110106	Certificate I in Resource and Infrastructure Operations	154	Yes
R1140106	Certificate IV in Civil Construction Operations	588	Yes
R1140206	Certificate IV in Civil Construction Supervision	675	Yes
R1140306	Certificate IV in Civil Construction Design	783	Yes
R1150106	Diploma of Civil Construction Management	890	Yes
R1150206	Diploma of Civil Construction Design	1288	Yes
R1160106	Advanced Diploma of Civil Construction Management	1138	Yes
R1160206	Advanced Diploma of Civil Construction Design Management	1025	Yes

CURRENT ACCREDITED COURSES REPLACED BY R1106 QUALIFICATIONS

The following table lists current accredited courses in Queensland and qualifications under the R1106 Civil Construction Training Package that will replace them.

Owners of courses will be required to either deliver equivalent National Training Package qualifications or to amend their courses to align with the new competency standards in the R1106 Civil Construction Training Package.

Under the AQTF *Standards for Registered Training Organisations* amendment of curriculum-based courses to align with the new competency standards in the R1106 Civil Construction Training Package must be completed within 12 months of the endorsement date of the National Training Package.

PREVIOUS ACCREDITED COURSE			QUALIFICATIONS NOW EFFECTIVE UNDER R1106 TRAINING PACKAGE		
Code	Nominal Hours	Qualification Title	Code	Nominal Hours	Qualification Title
39135QLD	280	Certificate I in Civil Construction (Pre-vocational)	R1110106	154	Certificate I in Resource and Infrastructure Operations

NOTE ¹ Replacement of previous qualifications by newer versions does not automatically mean that the qualifications are directly equivalent. The table from page 8 shows the equivalence between individual units of competency for credit purposes.

NOMINAL HOURS

A nominal hour is a value assigned to a structured program of study that nominally represents the hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study.

The DETA nominal hours allocated to each unit of competency are detailed in the table commencing on page 8.

NOTE: Under the Queensland 2006-2009 User Choice program, nominal hours are no longer used as an element in determining appropriate levels of funding. The User Choice catalogue now determines funding according to:

- a list of competencies or modules against which the department has allocated a price it will pay RTOs for the delivery and completion of the particular competency or module;
- a published indicative minimum and maximum price range the department will pay for the completion of the full qualification or occupational outcome.

Additional information on funding under User Choice can be found at:

http://www.trainandemploy.qld.gov.au/partners/funding_and_tenders/user_choice/index.html

TRANSITION ARRANGEMENTS

The qualifications in the R1106 Civil Construction Training Package are now available for delivery in Queensland. For the Queensland owned course affected by R1106 Civil Construction training Package qualifications, the following arrangements apply:

- 39135QLD is the only accredited course to be replaced by a qualification from R1106 V1.0 Civil construction training Package.
- Please note that this accredited course is now in teach out from 1/01/2008 to 1/01/2009 and therefore no new enrolments can be made from 1/01/2008.
- All new students in publicly funded training are to be enrolled in new Training Package qualifications once they are implemented in Queensland. As a general rule, existing apprentices and trainees should transition to new Training Package qualifications within 12 months from the date of implementation, or complete their current studies within the same period. However, if the employer does not consent to transition the apprentice or trainee to the new training qualification, the apprentice or trainee will continue in the current program through to completion.

The table on page 8 shows the relationship of the units in the National Training Package to the modules of accredited courses. These relationships may be used to determine which modules are equivalent to (and therefore provide credit for) units of competency, and identify the modules that only partially address a particular unit of competency (for example, underpinning knowledge only).

In determining such transition arrangements, Training Providers should take the following factors into account:

- Degree of correct AQF alignment of a course against a National Training Package qualification;
- Parity of outcomes between an accredited module of training and a unit of competency;
- Viability of continuing to deliver the accredited course (continuing students only);
- Possible impacts on students when transitioning to the new qualification may be complex or otherwise disadvantageous to the student;

- Potential disadvantages to students where a previous course 'award' may no longer hold industry

NOTE: Even where the equivalency table indicates credit is allowable, attention should also be paid to aspects such as recency and currency before direct or automatic credit is granted.

ALIGNMENT BETWEEN UNITS OF COMPETENCY AND RII06 UNITS OF COMPETENCY

Units of competency from other Resources and Infrastructure Industry Skills Council Training Packages have now been replaced by units of competency from the RII06 Civil Construction Training Package.

Where relationships occur between the previous units and the newly endorsed RII06 units, they are shown in the table below.

Reviewed Training Packages can comprise units of competency suffixed with 'A', 'B' and 'C'. These identifiers are explained in the published *User Guide for the RII06 Training Package*. The details below provide further guidance:

- A unit code with the suffix 'B' signifies that the unit has been updated from its previous 'A' version. Similarly, 'C' indicates an update from a previous 'B' version.
- The change from 'A' to 'B' (or 'B' to 'C') denotes that the unit has been modified by the Training Package developer, but these changes do not alter the competency outcomes of the unit. Typically this would mean that wording has been modified or improved in the Range Statement or Evidence Guide in order to provide clearer intent.
- The table below does not provide detail on the extent of change or modification referred to above. RTOs should familiarise themselves with newly coded 'B' or 'C' versions to identify the extent of change.
- Where an updated 'B' version, or 'C' version, delivers essentially the same competency outcomes as its superseded version, this is reflected in the column headed "Direct credit granted for the previous units". The skills and knowledge outcomes of the updated unit are the same as, or acceptably similar to, the outcomes of the previous unit. Credit recognition (also called cross-credit or credit transfer) is therefore justifiable.
- A unit code with the suffix 'A' signifies a newly endorsed unit. It may be a brand new unit with no direct relationship to previously existing units. It may replace one or more previous units, either fully or in part. Where the new 'A' unit bears no relationship to previously existing units, the entry in the table states "*new unit*".
- Where the 'A' unit replaces a unit only in part, this is indicated in the table under the "*Competency partially addressed by the previous units*" column. Credit transfer is not applicable in this circumstance.
- The parent Training Package should be consulted for imported units of competency.

ALIGNMENT BETWEEN UNITS OF COMPETENCY AND RII06 UNITS OF COMPETENCY

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC401A	Supervise civil works	80	Nil commensurate		New unit
RIICC402A	Supervise civil works contractors	100	Nil commensurate		New unit
RIICC403A	Apply the principles of earthworks construction	100	Nil commensurate		New unit
RIICC404A	Apply the principles of flexible pavement construction	50	Nil commensurate		New unit
RIICC405A	Apply the principles of rigid pavement construction	50	Nil commensurate		New unit
RIICC406A	Apply the principles of the stabilisation of materials	50	Nil commensurate		New unit
RIICC407A	Apply the principles for asphalt paving and compaction	40	Nil commensurate		New unit
RIICC408A	Apply the principles for the application of bituminous sprayed treatments	45	Nil commensurate		New unit
RIICC409A	Apply the principles for the selection and use of polymer modified binder	25	Nil commensurate		New unit
RIICC410A	Apply the principles for the selection and use of bituminous emulsion	20	Nil commensurate		New unit
RIICC411A	Apply the principles for the application of slurry surfacing	40	Nil commensurate		New unit
RIICC412A	Apply the principles of pavement profiling using a profiler	30	Nil commensurate		New unit

R1106 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC413A	Apply the principles for the manufacture and delivery of hot mix asphalt	40	Nil commensurate		New unit
RIICC414A	Apply the principles for the manufacture of cold mix	40	Nil commensurate		New unit
RIICC415A	Apply the principles for the manufacture of polymer modified binder	40	Nil commensurate		New unit
RIICC416A	Apply the principles for the manufacture of bituminous emulsion	40	Nil commensurate		New unit
RIICC417A	Apply the principles of the manufacture of slurry surfacing	40	Nil commensurate		New unit
RIICC418A	Inspect and report on pavement condition	40	Nil commensurate		New unit
RIICC419A	Carry out pavement condition measurement	50	Nil commensurate		New unit
RIICC420A	Apply the principles of pavement maintenance	50	Nil commensurate		New unit
RIICC421A	Apply the principles for the installation of underground service using open excavation	60	Nil commensurate		New unit
RIICC422A	Apply the principles for the installation of underground service using trenchless technology	60	Nil commensurate		New unit
RIICC423A	Apply the principles for the repair and rehabilitation of underground service using trenchless technology	60	Nil commensurate		New unit
RIICC424A	Apply the principles of tunnel construction	100	Nil commensurate		New unit

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC425A	Apply the principles of civil concrete structures construction	100	Nil commensurate		New unit
RIICC426A	Apply the principles of civil steel structures construction	100	Nil commensurate		New unit
RIICC427A	Apply the principles of civil timber structures construction	100	Nil commensurate		New unit
RIICC428A	Apply the principles of civil masonry, crib and gabion structure construction	100	Nil commensurate		New unit
RIICC429A	Carry out inspections of civil structures	100	Nil commensurate		New unit
RIICC430A	Apply principles of maintenance of civil structures	100	Nil commensurate		New unit
RIICC431A	Apply the principles of canal construction	100	Nil commensurate		New unit
RIICC432A	Apply the principles of demolitions	100	Nil commensurate		New unit
RIICC501A	Implement civil construction plans	120	Nil commensurate		New unit
RIICC502A	Implement civil works maintenance programs	120	Nil commensurate		New unit
RIICC503A	Prepare work zone traffic management plans	50	Nil commensurate		New unit
RIICC504A	Prepare civil works bills of quantities	100	Nil commensurate		New unit
RIICC505A	Prepare civil works schedule of rates	100	Nil commensurate		New unit
RIICC506A	Prepare civil works cost estimates	100	Nil commensurate		New unit
RIICC507A	Prepare detailed geotechnical design	100	Nil commensurate		New unit

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC508A	Prepare detailed design of rural roads	100	Nil commensurate		New unit
RIICC509A	Prepare detailed design of urban roads	100	Nil commensurate		New unit
RIICC510A	Prepare detailed design of busways	100	Nil commensurate		New unit
RIICC511A	Prepare detailed design of sub-divisions	100	Nil commensurate		New unit
RIICC512A	Prepare detailed design of motorways and interchanges	100	Nil commensurate		New unit
RIICC513A	Prepare detailed design of rail civil infrastructure	100	Nil commensurate		New unit
RIICC514A	Prepare detailed design of dams	100	Nil commensurate		New unit
RIICC515A	Prepare detailed design of airfield civil works	100	Nil commensurate		New unit
RIICC516A	Prepare detailed design of bicycle ways	50	Nil commensurate		New unit
RIICC517A	Prepare detailed design of industrial hardstands	100	Nil commensurate		New unit
RIICC518A	Prepare detailed design of open car parks	50	Nil commensurate		New unit
RIICC519A	Prepare detailed design of intermodal facilities civil works	100	Nil commensurate		New unit
RIICC520A	Prepare detailed design of rigid pavement	100	Nil commensurate		New unit
RIICC521A	Prepare detailed design of flexible pavement	100	Nil commensurate		New unit
RIICC522A	Prepare stabilised materials mix design	100	Nil commensurate		New unit
RIICC523A	Prepare asphalt mix design	60	Nil commensurate		New unit

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC524A	Prepare design of sprayed seal surfacing	60	Nil commensurate		New unit
RIICC525A	Select pavement surfacing	60	Nil commensurate		New unit
RIICC526A	Prepare detailed traffic analysis	100	Nil commensurate		New unit
RIICC527A	Prepare detailed design of traffic signals	100	Nil commensurate		New unit
RIICC528A	Prepare detailed design of traffic management systems	100	Nil commensurate		New unit
RIICC529A	Prepare detailed design of underground services	100	Nil commensurate		New unit
RIICC530A	Prepare detailed design of surface drainage	100	Nil commensurate		New unit
RIICC531A	Prepare detailed design of subsurface drainage	100	Nil commensurate		New unit
RIICC532A	Prepare detailed design of tunnels	100	Nil commensurate		New unit
RIICC533A	Prepare detailed design of civil concrete structures	100	Nil commensurate		New unit
RIICC534A	Prepare detailed design of civil steel structures	100	Nil commensurate		New unit
RIICC535A	Prepare detailed design of civil timber structures	100	Nil commensurate		New unit
RIICC536A	Prepare the detailed design of civil masonry, crib and gabion structures	100	Nil commensurate		New unit
RIICC537A	Prepare detailed design of marine structures civil works	120	Nil commensurate		New unit
RIICC538A	Prepare detailed design of foundations	100	Nil commensurate		New unit
RIICC539A	Prepare detailed design of lighting	100	Nil commensurate		New unit

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIICC540A	Prepare detailed design of environmental controls	100	Nil commensurate		New unit
RIICC541A	Prepare detailed design of landscaping	100	Nil commensurate		New unit
RIICC542A	Prepare detailed design of canals	100	Nil commensurate		New unit
RIICC543A	Implement and maintain environmental management plans	100	Nil commensurate		New unit
RIICC544A	Implement and maintain quality management plans	100	Nil commensurate		New unit
RIICC601A	Manage the civil works design process	300	Nil commensurate		New unit
RIICC602A	Establish civil construction plans	300	Nil commensurate		New unit
RIICC603A	Establish civil works maintenance programs	300	Nil commensurate		New unit
RIIG001A	Work safely and follow OH&S policies and procedures	25	Nil commensurate		<p>New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie:</p> <ul style="list-style-type: none"> • BCCCM1001B Follow OH&S policies and procedures • DRTNHB01A Follow workplace health, safety and environment procedures • MNCC1001A Work safely • MNMC201A Work safely • MNQGEN210A Work safely

RII06 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIIG002A	Communicate in the workplace	18	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • BCCCM1002B Conduct workplace communication • MNCC1007A Communicate in the workplace • MNMC202A Communicate in the workplace • MNQGEN240A Communicate in the workplace
RIIG003A	Contribute to quality work outcomes	15	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • MNCC1005A Comply with site work systems/procedures • MNMC203A Contribute to quality work outcomes • MNQGEN230A Contribute to site quality outcomes
RIIG004A	Conduct local risk control	15	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • MNCC1006A Conduct local risk assessment • MNMC205A Conduct local risk assessment • MNQGEN200A Conduct local risk control
RIIG005A	Read and interpret maps	40	Nil commensurate		New unit
RIIG006A	Collect and prepare samples	40	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • MNMEGS204A Collect and prepare samples

R1106 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
RIIG2001A	Plan and organise work	20	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • BCCCM1003B Plan and organise work • MNMG203A Plan and organise individual work
RIIG2002A	Carry out measurements and calculations	20	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • BCCCM1004B Carry out measurements and calculations
RIIG2003A	Use hand and power tools	80	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • BCCCM2001B Use civil construction hand and power tools • MNCG1035A Apply operational maintenance skills • MNMG215A Apply operational maintenance skills
RIIG2004A	Operate small plant and equipment	24	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • BCCCM2002B Use small plant and equipment • MNCG1060A Operate support equipment
RIIG2005A	Operate light vehicles	30	Nil commensurate		New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie: <ul style="list-style-type: none"> • MNCG1061A Operate light vehicle • MNMOMS207A Operate light vehicle

R1106 Units of Competency		Nominal hours	Direct credit granted for the previous units	Competency partially addressed by the previous unit/s ie full credit NOT permissible	Comments
Unit Code	Unit Title				
R11G2006A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16	Nil commensurate		<p>New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie:</p> <ul style="list-style-type: none"> • BCCCM1005B Handle construction materials and safely dispose of non-toxic materials
R11G2007A	Read and interpret plans and specifications	40	Nil commensurate		<p>New unit TAFE Queensland recommends units from other Resources and Infrastructure Industry Skills Council Training Packages associated with 39135QLD are equivalent, ie:</p> <ul style="list-style-type: none"> • BCCCM2003B Read and interpret plans and specifications

UNITS IMPORTED FROM OTHER TRAINING PACKAGES

RII06 Units of Competency		Approved Hours	Unit Imported From (Refer to Mapping Guide for parent Training Package)
BCCCM3003B	Implement traffic management plan	40	BCC03 Civil Construction Training Package
BSBCM215A	Participate in environmental work practices	20	BSB01 Business Services Training Package
BSBCM402A	Develop work priorities	40	BSB01 Business Services Training Package
BSBCM404A	Develop teams and individuals	40	BSB01 Business Services Training Package
BSBCM408A	Report on financial activity	60	BSB01 Business Services Training Package
BSBCM410A	Coordinate implementation of customer service strategies	40	BSB01 Business Services Training Package
BSBCM411A	Monitor a safe workplace	40	BSB01 Business Services Training Package
BSBCM412A	Promote innovation and change	40	BSB01 Business Services Training Package
BSBCM413A	Implement and monitor environmental policies	30	BSB01 Business Services Training Package
BSBCM419A	Manage projects	50	BSB01 Business Services Training Package
BSBFLM403B	Implement effective workplace relationships	40	BSB01 Business Services Training Package
BSBFLM405B	Implement operational plan	40	BSB01 Business Services Training Package
BSBFLM406B	Implement workplace information system	40	BSB01 Business Services Training Package
BSBFLM409B	Implement continuous improvement	40	BSB01 Business Services Training Package
BSBFLM412A	Promote team effectiveness	50	BSB01 Business Services Training Package
BSBFLM501B	Manage personal work priorities and professional development	40	BSB01 Business Services Training Package
BSBFLM503B	Manage effective workplace relationships	50	BSB01 Business Services Training Package
BSBFLM505B	Manage operational plan	50	BSB01 Business Services Training Package
BSBFLM506B	Manage workplace information systems	50	BSB01 Business Services Training Package
BSBFLM507B	Manage quality customer service	40	BSB01 Business Services Training Package
BSBFLM509B	Facilitate continuous improvement	50	BSB01 Business Services Training Package
BSBFLM510B	Facilitate and capitalise on change and innovation	40	BSB01 Business Services Training Package
BSBFLM511B	Develop a workplace learning environment	40	BSB01 Business Services Training Package
BSBFLM512A	Ensure team effectiveness	50	BSB01 Business Services Training Package
BSBFLM513A	Manage budgets and financial plans within the work team	60	BSB01 Business Services Training Package
BSBHR504A	Manage industrial relations policies and processes	50	BSB01 Business Services Training Package
BSBHR506A	Manage recruitment selection and induction processes	50	BSB01 Business Services Training Package
BSBMGT503A	Prepare budgets and financial plans	40	BSB01 Business Services Training Package
BSBMGT504A	Manage budgets and financial plans	40	BSB01 Business Services Training Package
BSBMGT505A	Ensure a safe workplace	40	BSB01 Business Services Training Package
BSBMGT506A	Recruit, select and induct staff	50	BSB01 Business Services Training Package
BSBMGT603A	Review and develop business plans	50	BSB01 Business Services Training Package

RII06 Units of Competency		Approved Hours	Unit Imported From (Refer to Mapping Guide for parent Training Package)
BSBMGT604A	Manage business operations	40	BSB01 Business Services Training Package
BSBMGT605A	Provide leadership across the organisation	60	BSB01 Business Services Training Package
BSBMGT606A	Manage customer focus	60	BSB01 Business Services Training Package
BSBMGT608A	Manage innovation and continuous improvement	40	BSB01 Business Services Training Package
BSBOHS607A	Advise on application of safe design principles to control OHS risk	50	BSB01 Business Services Training Package
BSBPM405A	Apply human resources management approaches	35	BSB01 Business Services Training Package
BSBPM408A	Apply contract and procurement techniques	35	BSB01 Business Services Training Package
BSBPM501A	Manage application of project integrative processes	50	BSB01 Business Services Training Package
BSBPM502A	Manage project scope	35	BSB01 Business Services Training Package
BSBPM503A	Manage project time	30	BSB01 Business Services Training Package
BSBPM504A	Manage project costs	35	BSB01 Business Services Training Package
BSBPM505A	Manage project quality	35	BSB01 Business Services Training Package
BSBPM506A	Manage project human resources	40	BSB01 Business Services Training Package
BSBPM507A	Manage project communications	35	BSB01 Business Services Training Package
BSBPM508A	Manage project risk	35	BSB01 Business Services Training Package
BSBPM509A	Manage project procurement	40	BSB01 Business Services Training Package
BSBPM601A	Direct the integration of multiple projects/programs	50	BSB01 Business Services Training Package
BSBPM602A	Direct the scope of multiple projects/programs	50	BSB01 Business Services Training Package
BSBPM603A	Direct time management of multiple projects/programs	40	BSB01 Business Services Training Package
BSBPM604A	Direct cost management of multiple projects/programs	50	BSB01 Business Services Training Package
BSBPM605A	Direct quality management of multiple projects/programs	50	BSB01 Business Services Training Package
BSBPM606A	Direct human resources management of multiple projects/programs	50	BSB01 Business Services Training Package
BSBPM607A	Direct communications management of multiple projects/programs	40	BSB01 Business Services Training Package
BSBPM608A	Direct risk management of multiple projects/programs	45	BSB01 Business Services Training Package
BSBPM609A	Direct procurement and contracts of multiple projects/programs	50	BSB01 Business Services Training Package
BSBSBM402A	Undertake financial planning	40	BSB01 Business Services Training Package
BSBSBM403A	Promote the business	50	BSB01 Business Services Training Package
BSBSBM404A	Undertake business planning	30	BSB01 Business Services Training Package
BSBSBM406A	Manage finances	50	BSB01 Business Services Training Package
HLTFA1A	Apply basic First Aid	18	HLT02 Health Training Package
ICAITU128A	Operate a personal computer	20	ICA05 Information and Communications Technology Training Package
LGACOM401A	Administer contracts	50	LGA04 Local Government Training Package
LGACOM402A	Arrange contracts	50	LGA04 Local Government Training Package
LGACOM409A	Prepare tender documentation	60	LGA04 Local Government Training Package
LGACOM410A	Prepare response to tenders	30	LGA04 Local Government Training Package

R1106 Units of Competency		Approved Hours	Unit Imported From (Refer to Mapping Guide for parent Training Package)
LGADMIN417A	Conduct community consultations	40	LGA04 Local Government Training Package
LGAWORK401A	Develop works maintenance schedule	30	LGA04 Local Government Training Package
LGAWORK402A	Prepare for operational works	30	LGA04 Local Government Training Package
LGAWORK403A	Manage civil plant and resources	40	LGA04 Local Government Training Package
LGAWORK501A	Prepare preliminary design for operational works	60	LGA04 Local Government Training Package
LGAWORK502A	Prepare detailed works project documentation	60	LGA04 Local Government Training Package
LGAWORK503A	Undertake project investigation	50	LGA04 Local Government Training Package
MEM30.1A	Use computer aided drafting systems to produce basic engineering drawings	40	MEM05 Metal and Engineering Industry Training Package
MEM30.2A	Produce basic engineering graphics	40	MEM05 Metal and Engineering Industry Training Package
MEM30.3A	Produce detailed engineering drawings	80	MEM05 Metal and Engineering Industry Training Package
MEM30.4A	Use CAD to create and display 3D models	40	MEM05 Metal and Engineering Industry Training Package
MEM9.11B	Apply basic engineering design concepts	60	MEM05 Metal and Engineering Industry Training Package
MNMMSU411A	Supervise work in confined space	20	MNM05 Metalliferous Mining Training Package
MNQGEN300A	Apply risk management processes	15	MNQ03 Extractive Industry Training Package
MNQGEN340A	Communicate information	20	MNQ03 Extractive Industry Training Package
MNQGEN400A	Apply site risk management system	40	MNQ03 Extractive Industry Training Package
MNQGEN401A	Apply site statutory compliance management plan	80	MNQ03 Extractive Industry Training Package
MNQGEN403A	Foster positive community relations	10	MNQ03 Extractive Industry Training Package
MNQGEN404A	Supervise dust and noise control	30	MNQ03 Extractive Industry Training Package
MNQGEN430A	Apply site quality plan	25	MNQ03 Extractive Industry Training Package
MNQGEN500A	Implement and maintain management plans to control risk	60	MNQ03 Extractive Industry Training Package
MNQGEN600A	Establish and maintain the risk management system	80	MNQ03 Extractive Industry Training Package
MNQGEN601A	Establish and maintain the statutory compliance management system	100	MNQ03 Extractive Industry Training Package
MNQGEN602A	Manage major incidents and emergencies	80	MNQ03 Extractive Industry Training Package
MNQGEN610A	Establish and maintain the occupational health and safety management system	50	MNQ03 Extractive Industry Training Package
MNQGEN620A	Establish and maintain the environmental management system	50	MNQ03 Extractive Industry Training Package
MNQGEN630A	Establish and maintain the quality system	80	MNQ03 Extractive Industry Training Package
MNQGEN661A	Conduct feasibility study	80	MNQ03 Extractive Industry Training Package
MNQGEN662A	Establish operational performance management system	80	MNQ03 Extractive Industry Training Package
MNQGEN663A	Initiate, monitor and supervise contracts	60	MNQ03 Extractive Industry Training Package
MNQGEN664A	Conduct business negotiations	50	MNQ03 Extractive Industry Training Package
MNQOPS403A	Apply site plant and resource management plan	40	MNQ03 Extractive Industry Training Package

R1106 Units of Competency		Approved Hours	Unit Imported From (Refer to Mapping Guide for parent Training Package)
MNQOPS413A	Conduct shottfiring	60	MNQ03 Extractive Industry Training Package
MNQOPS450A	Apply site plant, equipment and infrastructure maintenance management plan	40	MNQ03 Extractive Industry Training Package
MNQOPS503A	Implement site plant and resource management plan	80	MNQ03 Extractive Industry Training Package
MNQOPS511A	Design surface blasts	20	MNQ03 Extractive Industry Training Package
MNQOPS512A	Manage blast hole drilling operations	30	MNQ03 Extractive Industry Training Package
MNQOPS513A	Manage blasting operations	40	MNQ03 Extractive Industry Training Package
MNQOPS550A	Implement and maintain the site plant, equipment and infrastructure maintenance plan	60	MNQ03 Extractive Industry Training Package
MNQOPS650A	Establish plant, equipment and infrastructure maintenance system	80	MNQ03 Extractive Industry Training Package
PMLDATA400A	Process and interpret data	105	PML04 Laboratory Operations Training Package
PMLDATA500B	Analyse data and report results	55	PML04 Laboratory Operations Training Package
PMLSAMP302A	Receive and prepare samples for testing	20	PML04 Laboratory Operations Training Package
PMLSAMP400B	Obtain representative samples in accordance with sampling plan	25	PML04 Laboratory Operations Training Package
PMLTEST300B	Perform basic tests	55	PML04 Laboratory Operations Training Package
PMLTEST303B	Prepare working solutions	20	PML04 Laboratory Operations Training Package
PMLTEST307B	Prepare trial batches for evaluation	40	PML04 Laboratory Operations Training Package
PMLTEST402B	Prepare, standardise and use solutions	100	PML04 Laboratory Operations Training Package
PMLTEST403B	Assist with geotechnical site investigations	80	PML04 Laboratory Operations Training Package
PMLTEST404A	Perform chemical tests and procedures	100	PML04 Laboratory Operations Training Package
PMLTEST406A	Perform physical tests	100	PML04 Laboratory Operations Training Package
PMLTEST411A	Perform mechanical tests	80	PML04 Laboratory Operations Training Package
PMLTEST511B	Supervise earthworks inspection, sampling and testing operations	120	PML04 Laboratory Operations Training Package
PMLTEST520A	Perform complex tests to measure engineering properties of materials	55	PML04 Laboratory Operations Training Package
PRDSIS07A	Capture new data	100	PRD01 Property Development and Management Training Package
PRDSIS08A	Obtain and validate existing data	30	PRD01 Property Development and Management Training Package
PRDSIS14A	Integrate spatial data sets	60	PRD01 Property Development and Management Training Package
PRDSIS29A	Collect basic data	160	PRD01 Property Development and Management Training Package

INFORMATION REGARDING APPRENTICESHIPS/TRAINEESHIPS

Under the *Vocational Education, Training and Employment Act 2000* the Training and Employment Recognition Council has the power to declare apprenticeships and traineeships. The Training and Employment Recognition Council, in consultation with recognised relevant industry advisory bodies, determines which of the qualifications in the R1106 Civil Construction Training Package may be proposed as an Apprenticeship or Traineeship.

When a new training qualification becomes available, Registered Training Organisations must advise *all* students of the benefits and disadvantages of continuing in their current course or transitioning to the new Training Package qualification.

All new students in publicly funded training are to be enrolled in new Training Package qualifications once they are implemented in Queensland. Ideally, existing apprentices and trainees should transition to new Training Package qualifications within 12 months from the date of implementation, or complete their current studies within the same period. If an employer does not consent to transition the apprentice or trainee to the new training qualification, the apprentice or trainee will continue in the current program through to completion. However an apprentice or trainee shall not remain in a superseded apprenticeship or traineeship beyond teach-out expiry (teach-out expires 3 years from the date of release of a new training package or qualification).

Parties to a registered training contract who agree to transition must inform the Training and Employment Recognition Council by forwarding a completed and signed "Agreement to Transition" form to their local regional office of the Department of Education, Training and the Arts. The Supervising Registered Training Organisation must also sign this form to confirm that the training plan has been reviewed.

It is a Registered Training Organisation's responsibility to keep abreast of changes or additions to declared apprenticeship and traineeship qualifications. The Queensland Training Information Service (QTIS) provides details on National Training Package qualifications and non-Training Package curricula recognised by the Training and Employment Recognition Council for delivery as apprenticeships or traineeships by accessing:

<http://tsx.dtir.qld.gov.au/cgi-bin/dycgi03.exe/inetsite/app/qtis/qtis.stm> or

http://www.trainandemploy.qld.gov.au/partners/training_delivery/appships_tships/index.html

Enquiries about current apprenticeships and traineeships relevant to the R1106 Civil Construction Training Package should be directed to the Apprenticeship Information Centre on 1800 210 210. The following electronic (Internet) links will also provide assistance:

- Department of Education, Training and the Arts, Queensland Government
http://www.trainandemploy.qld.gov.au/client/for_business_and_employers/appship_tship_info/
- National Training Information Service (NTIS)
(Australian National Training Authority developed database on National Training Packages and nationally accredited courses)
<http://www.ntis.gov.au>

RESOURCES

A range of existing resources is available to support the implementation of the R1106 Civil Construction Training Package. Many of the resources used to deliver BCC03 Civil Construction Training Package qualifications may continue to be relevant. Assessment tools designed for the BCC03 Training Package may also be appropriate when assessing against units of competency but should be reviewed carefully to ensure compliance with the assessment requirements for the reviewed units of competency. Organisations distributing training resources useful for the Civil Construction Training Package include:

Contact	Resource
Centre for Training Materials Department of Education, Training and the Arts GPO Box 1326 BRISBANE QLD 4001 Tel: 07 3248 4675 Fax: 07 3248 4670 Website: http://www.trainandemploy.qld.gov.au/ctm	Manages the licensing and distribution of resources that assist the implementation of National Training Packages.
TVET Australia Level 21 390 St Kilda Road MELBOURNE VIC 3004 Tel: 03 9832 8100 Fax: 03 9832 8199 Website: http://www.atpl.net.au	Comprehensive range of generic and sector specific training resources is available - refer to the ATP catalogue. (Note: replaced by TVET Australia from 7/8/06)
Australian Education Sharing Network (AEShareNet) DEEWR, Commonwealth of Australia Website: http://www.aesharenet.com.au	National network for educational resources. (Note: replaced by TVET Australia from 7/8/06)
Educational Network Australia Website: http://www.edna.edu.au	National network for educational resources.
National Resource Generator Website: http://resourcegenerator.gov.au	Provides trainers and assessors with access to information about units of competency, qualifications and learning resources across a range of industries.
SkillsDMC National Industry Skills Council Website: http://www.skillsdmc.com.au	National contact for information on R1106 Civil Construction Training Package and supporting resources

GLOSSARY OF TERMS

Assessment Guidelines	One of three elements known as <i>Endorsed Components</i> of a Training Package. The Assessment Guidelines specify the requirements and processes necessary to establish a person's competency. This part of the package is compulsory and should be read in conjunction with the performance criteria and range of variables in each competency unit.
Australian Quality Training Framework (AQTF)	Provides principles, standards and protocols for a consistent quality assured approach to training. It supports mutual recognition arrangements between states/territories, RTOs and industries, and ensures that RTOs have the necessary capabilities to deliver quality training and assess competency outcomes, and issue nationally recognised qualifications. It is part of the National Training Framework (NTF) and was most recently reviewed in 2007. For further information refer to this website: http://www.trainandemploy.qld.gov.au/partners/registration_and_audit/
Australian Qualification Framework (AQF)	Provides a national framework for education and training qualifications across all educational sectors. There are twelve levels within the AQF which provide a guide as to the level of training required for a specific job/occupation. The level depends on the breadth, depth and complexity of knowledge and competencies and the degree of responsibility or accountability.
Codes	For recognition and record-keeping purposes, DEST issues uniform national codes for all qualifications and competency standards in National Training Packages.
Competency Standards	A description of the skills, knowledge and application of that knowledge that are considered essential for effective performance in a job/occupation. These are organised into a standard format called units of competency.
Customisation	Involves tailoring qualifications and courses and units of competency to meet specific customer needs that do not affect the integrity of the qualification outcomes. Customisation must be in accordance with both the qualification/course rules, and the National Guidelines for the Customisation of Accredited Courses. Customisation is not to be confused with re-packaging units of competency from different Training Packages to construct new accredited courses that are not met by existing endorsed National Training Packages.

Department of Education, Employment and Workplace Relations (DEEWR)	The Australian Government Department responsible for public and private schools and school systems, higher education institutions and research, vocational education and training, student and youth affairs, school to work transition programs, indigenous employment and education, and internationalisation of Australia 's education and training systems. For further information refer to this website: http://www.dest.gov.au/sectors/training_skills/policy_issues_reviews/key_issues/nts/default.htm
Endorsed Components	A National Training Package consists of Endorsed and Non-Endorsed Components. Endorsed components consist of Industry Competency Standards, Qualifications, and Assessment Guidelines.
Endorsement	The process of official national approval of National Training Packages by the National Quality Council.
Industry Training Advisory Body (ITAB)	At the national level, ITABs have been replaced by Industry Skills Councils and at the State level in Queensland have been replaced by Centres of Excellence, Skills Alliances and a range of other advisory arrangements. Further information can be found at: http://www.dest.gov.au/sectors/training_skills/policy_issues_reviews/key_issues/nts/lnk/advisory.htm
Industry Skills Council	National industry advisory arrangements are provided by a network of 10 national industry skills councils established by an industry or business sector to address training issues. They channel information about changing skill needs and future workforce requirements direct from industry to government and the training sector and are involved in the development and continuous improvement of Training Packages.
Mutual Recognition	Through mutual recognition an RTO can operate across any State or Territory. There are nine principles for mutual recognition that include the mutual recognition of qualifications and Statements of Attainment issued by other RTOs, and the recognition of RTOs by other State Training Authorities.
Non-Endorsed Components or Support Materials	A National Training Package consists of Endorsed and Non-Endorsed Components. While endorsed components may not be customised, the RTO may design non-endorsed support materials to suit identified client need and facilitate the achievement of competence. Support materials may include curriculum modules, other learning materials, assessment materials and professional development kits for trainers/assessors.

National Training Package	A set of nationally endorsed specifications for a particular industry, or industry sector, which consist of Endorsed Components and Non-endorsed Components that facilitate workplace training. Industry Skills Councils develop national competency standards which are packaged together with assessment guidelines and approved qualifications and endorsed by the National Quality Council.
National Quality Council (NQC)	The National Quality Council is responsible for endorsing Training Packages and maintaining the quality assurance of competency standards. The National Quality Council has the roles of a National VET Quality Agency and a National Skills Agency. For further information see the DEST website: http://www.dest.gov.au/sectors/training_skills/policy_issues_reviews/key_issues/nts/vet/nqc.htm
Nominal Hours	Nominal hours are agreed nationally and approved for use in Queensland by the Queensland State Training Authority. They represent “the hours of supervised learning or training deemed necessary to conduct training/learning and assessment activities associated with the program of study. Nominal hours (supervised) do not include hours associated with non-supervised work experience, fieldwork, work-placement or private study” AVETMISS 5.0.
Product Support	The unit in DETA which manages Queensland stakeholder input to the development and review of national training packages, facilitates the endorsement of training packages and undertakes activities that support their implementation, and maintains relationships with industry and provider associations and networks.
Qualifications Framework	This explains which qualifications are contained in the National Training Package, their AQF levels, and how particular competency standards are packaged relevant to each qualification.
Registered Training Organisation (RTO)	These are training providers approved by the Queensland Training System. They can include TAFE Institutes, private training providers, industry enterprises, community providers and other providers who have gained registration to deliver or assess training.
Scope of Registration	This is the range of accredited courses and/or National Training Package qualifications that a Registered Training Organisation is approved to deliver and for which it can issue qualifications.
Training Products	“Training products” are now referred to as a qualification or a course. Qualifications and courses include those from nationally endorsed Training Packages and accredited courses leading to Statements of Attainment or qualifications under the AQF.

Training and Employment Recognition Council	Provides advice to the Training and Employment Board on policy and guidelines for the registration of training organisations, accreditation and regulation of courses, apprenticeship and traineeship systems, and vocational placements.
Unit of Competency	Industry competency standards are organised into a standard format consisting of: <i>Unit Title and Description</i> ; <i>Elements</i> of competency which break down the individual skills that workers perform; <i>Performance Criteria</i> which allow an assessor to know how well the elements must be performed; the <i>Range of Variables</i> which spell out the conditions or specific application in which the work is to be performed; and the <i>Evidence Guide</i> which states the context of assessment.
User Choice Contract	Formal agreement between the Registered Training Organisation and the Strategic Planning and Purchasing Branch of DETA, allowing the RTO to deliver Apprenticeship/Traineeship qualifications.

MAPPING GUIDE VERSION HISTORY

Mapping Guide Version Number	Training Package Version Number	Additions/Alterations from Previous Mapping Guide Version	Date
V1.0	V1.0	Initial release of new mapping guide	March 2008