

Extractive Industries

**TRAINING PACKAGE
IMPLEMENTATION GUIDE**

(MNQ03)

**Western Australian Department of Education and
Training**

November 2004

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Foreword

This Implementation Guide has been generated to enable the stakeholders in the Extractive Industries MNQ03 in Western Australia to participate in the managed implementation of the National Training Package.

The Guide has been developed with cooperation from WA Industry and Registered Training Organisations (RTO) delivering Extractive Industries qualifications. To achieve maximum advantage from the Guide, its implementation must comply with Australian Quality Training Framework Standards.

Information within the Guide provides guidance on how Competency Standards may be selected and applied to achieve suitable outcomes and qualifications, for and within industry.

The Extractive Industries Training Package MNQ03 was endorsed by Ministers for vocational education and training on 19 July 2003.

Acknowledgements

The Western Australian Implementation Guide for the Extractive Industries Training Package was prepared by the Mining, Engineering, Trades and Services Curriculum Support Services Network (METS CSSN) in consultation with private and public Registered Training Organisations and Industry on behalf of the Western Australian Department of Education and Training.

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Introduction

This Implementation Guide provides information that will facilitate implementation of the Extractive Industries Training Package MNQ03 in Western Australia. This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Extractive Industries Training Package MNQ03.

The Guide provides information on:

- Transition arrangements
- Licensing requirements (if any)
- Assessment
- Learning resources and assessment materials
- A mapping of current publicly funded qualifications in WA that will be replaced by the new Training Package qualifications
- An allocation of nominal hours to units of competency and total hours for qualifications
- A mapping of current Traineeship and Apprenticeship courses to new qualifications
- A set of appropriate sample, or model, training programs at each AQF level
- An indication of availability of supporting materials for delivery of qualifications

Obtaining the Training Package

The Extractive Industries Training Package MNQ03 can be purchased from:

Australian Training Products

Level 25, 150 Lonsdale Street

Melbourne Victoria 3000

Telephone: (03) 9655 0600

Facsimile: (03) 9639 4684

Email: sales@atpl.net.au

Information on National Training Packages is also available through the National Training Information Service (NTIS), which can be located on the Internet at:

www.ntis.gov.au

Note: Full texts of National Training Packages are not always published on the NTIS website. The web may only hold a subset such as the qualifications and the units of competency, so a copy of the Training Package may be needed.

All RTOs who intend to have any of these Training Package qualifications added to their Scope of Registration must purchase a copy of the Training Package.

Industry Advisory Arrangements:

The National Industry Skills Council

The National Industry Skills Council for the Extractive Industries Training Package (MNQ03) is:

Name: Des Caulfield

Phone: 02 9299 3014

Organisation: Resources and Infrastructure Industry Skills Council

Email: riisc@riisc.com.au

Industry Training Council – WA

Name: Claire Thomas

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Organisation: The Chamber of Minerals and Energy

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Overview of Extractive Industries Training Package

The Extractive Industries Training Package was revised to address the needs of all aspects of quarries and other extractive industries. The industry has embraced the principles of determining endorsed components of Training Packages and recognises the benefit that Training Package implementation has in meeting regulatory requirements.

Qualifications in this Training Package range from Certificate II to Advanced Diploma and reflect the work organisation and job design within the industry.

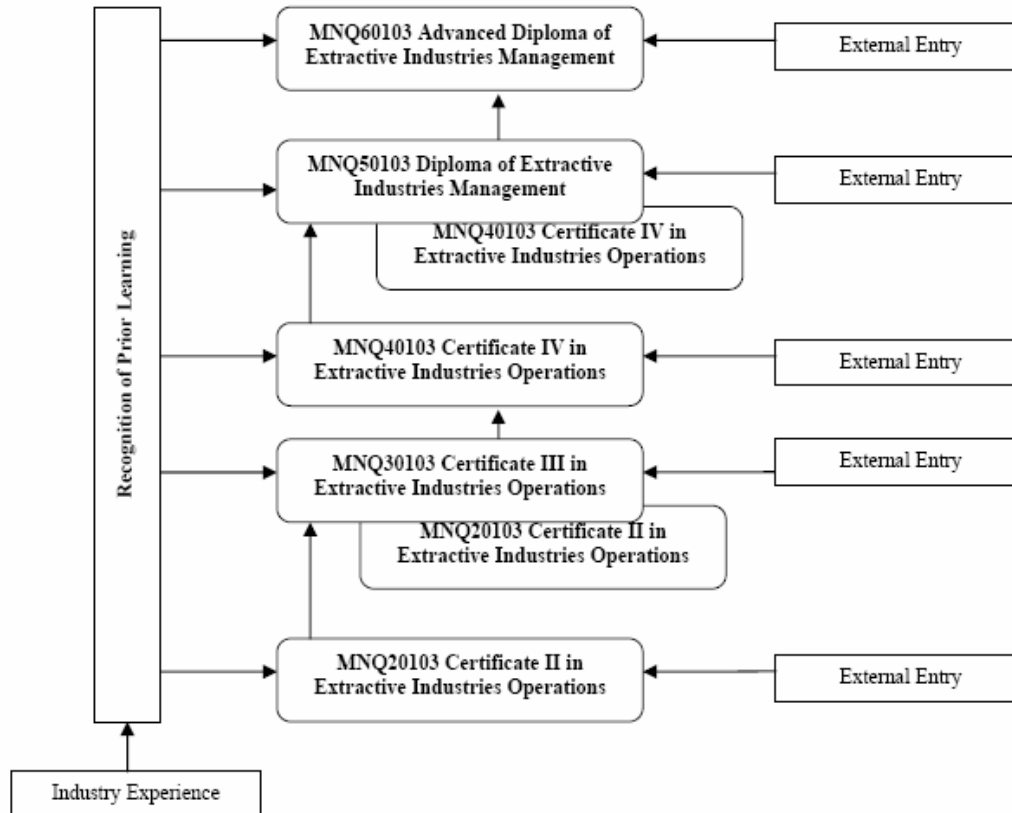
For further information related to the Extractive Industries in Western Australia, please refer to the following website:

<http://www.training.wa.gov.au/sub-sites/stsweb/statetrainingprofile/index.htm>

Pathways in the Training Package

Pathway options

The following diagram illustrates the pathway options.



External entry is possible to all qualifications. However the Certificate II in Extractive Industries Operations is embedded in the Certificate III in Extractive Industries Operations and the Certificate IV in Extractive Industries Operations is embedded in the Diploma of Extractive Industries Management. This means that if there is external entry into the Certificate III in Extractive Industries Operations or the Diploma of Extractive Industries Management the requirements for the embedded lower qualification must be satisfied as well.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of endorsement of the Training Package by the National Training Quality Council (NTQC). Before delivery, however, RTOs must make application to the Training Accreditation Council to have the replacement qualifications added to their Scope of Registration. In addition, while a current accredited course may be used until its accreditation expires, RTOs do need to re-appraise the customer focus they exhibit by continuing to deliver programs outside industry supported, nationally endorsed Training Packages.

Existing Courses

Existing Western Australian owned courses affected by the introduction of the new qualifications will be retired as soon as practicable after 2004. New enrolments in 2005 should therefore be directed into Training Package qualifications.

Transition to New Qualifications

Learners nearing the end of their courses by December 2004 may be allowed to complete them. Every effort should be made to move students currently enrolled in any qualification in the Extractive industry to the related qualification in the new Training Package, unless such action will disadvantage the student. It is the right of every student to graduate with the most recent qualification.

Nominal Hours Of Units of Competency

The nominal hours assigned in this Implementation Guide to Units of Competency include time for both training and assessment.

If public funding is allocated, it will be based upon these hours.

Nominal Duration Of Qualifications

The maximum nominal hours are identified for each Training Package qualification. Nominal hours may vary within a qualification depending on the units of competency selected and the delivery strategies used; however, training delivery will not be funded beyond the maximum nominal hours indicated. Nominal hours are for structured training only and include both delivery and assessment.

Licensing Requirements

There are currently several licensing requirements associated with qualifications within the Extractive Industries Training Package.

The regulatory authorities in each State and Territory determine licensing requirements for the mining industry. To meet the requirements under any statutory regulations, State/Territory licensing requirements need to be confirmed by the employer and the RTO delivering and/or assessing the competency.

Licensing requirements in the mining industry may cover such areas as:

- shotfiring
- working in confined spaces
- dozer
- front end loader
- excavator
- dogging
- rigging
- forklift truck
- crane operator.

NOTE: Achieving competence through the Training Package qualification does not automatically allow the person to undertake these activities in the workplace.

When assessing an area covered by a licence, or other regulatory requirement, the assessment must be conducted according to the requirements of the managing authority and according to the Assessment Guidelines contained within the Training Package.

Assessment Guidelines

Assessment Guidelines are one of the endorsed components of the Extractive Industries Training Package. See Section 1 of the Training Package.

Learning Resources And Assessment Materials

Learning resources and/or assessment materials make up the non-endorsed components of the Training Package. There is a range of learning resources for the Extractive Industries Training Package currently complete.

A number of assessment related resources are also available from:

- Australian Training Products
- The Industry Skills Council

Contact details for these organisations can be found on Page 5.

Trainers should carefully consider the use of existing resources and/or resources sourced from a third party, as some may need to be modified to suit the learning and assessment strategy developed by the RTO. In particular, resources previously used for training and assessment against superseded modules or competencies may not be suitable for the revamped Units of Competency without modification.

Qualifications And Nominal Hours

NTIS ID	Qualification	New Nominal Hours	Previous Nominal Hours
MNQ20103	Certificate II in Extractive Industries Operations	295	350
MNQ30103	Certificate III in Extractive Industries Operations	525	775
MNQ40103	Certificate IV in Extractive Industries Operations	615	735
MNQ50103	Diploma of Extractive Industries Management	716/1331	1255
MNQ60103	Advanced Extractive Industries Management	815	685

Units Of Competency And Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the Extractive Industries Training Package MNQ03.

National ID	Competency Name	Nominal Hours
MNQGEN200A	Conduct local risk control	15
MNQGEN210A	Work safely	30
MNQGEN230A	Contribute to site quality outcomes	20
MNQGEN231A	Conduct sampling operations	15
MNQGEN240A	Communicate in the workplace	15
MNQGEN300A	Apply risk management processes	30
MNQGEN310A	Conduct safety and health investigations	35
MNQGEN332A	Conduct site laboratory operations	35
MNQGEN340A	Communicate information	20
MNQGEN351A	Conduct weighbridge operations	25
MNQGEN400A	Apply site risk management system	40
MNQGEN401A	Apply site statutory compliance management plan	70
MNQGEN403A	Foster positive community relations	20
MNQGEN404A	Supervise dust and noise control	40
MNQGEN430A	Apply site quality plan	30
MNQGEN500A	Implement and maintain management plans to control risk	60
MNQGEN552A	Conduct sales in construction materials operations	70
MNQGEN600A	Establish and maintain the risk management system	70

National ID	Competency Name	Nominal Hours
MNQGEN601A	Establish and maintain the statutory compliance management system	70
MNQGEN602A	Manage major incidents and emergencies	50
MNQGEN610A	Establish and maintain the occupational health and safety management system	60
MNQGEN620A	Establish and maintain the environmental management system	60
MNQGEN630A	Establish and maintain the quality system	50
MNQGEN660A	Establish quarry operations	80
MNQGEN661A	Conduct feasibility study	70
MNQGEN662A	Establish operational performance management system	60
MNQGEN663A	Initiate, monitor and supervise contracts	70
MNQGEN664A	Conduct business negotiations	60

Imported General Units		
HLTFA1A	Apply basic First Aid	20
ICAITU128A	Operate a personal computer	20
PMLDATA300A	Process and record data	40
BSBCMN215A	Participate in environmental work practices	10
BSBCMN313A	Maintain environmental procedures	20
BSBCMN404A	Develop teams and individuals	40
BSBCMN408A	Report on financial activity	40
BSBCMN410A	Coordinate implementation of customer service strategies	30
BSBCMN411A	Monitor a safe workplace	40
BSBCMN413A	Implement and monitor environmental policies	40
BSBFLM302A	Support leadership in the workplace	40
BSBFLM303A	Contribute to effective workplace relationships	40
BSBFLM304A	Participate in work teams	40
BSBFLM404A	Lead work teams	50
BSBFLM405A	Implement operational plan	50
BSBFLM409A	Implement continuous improvement	50
BSBFLM501A	Manage personal work priorities and professional development	60
BSBFLM502A	Provide leadership in the workplace	60
BSBFLM503A	Establish effective workplace relationships	60
BSBFLM504A	Facilitate work teams	40
BSBFLM505A	Manage operational plan	60
BSBFLM509A	Promote continuous improvement	60
BSBFLM510A	Facilitate and capitalise on change and innovation	60

BSBFLM511A	Develop a workplace learning environment	60
BSBMGT503A	Prepare budgets and financial plans	50
BSBMGT603A	Review and develop business plans	60
BSBMGT605A	Provide leadership across the organisation	60
BSBMGT607A	Manage knowledge and information	60
BSBMGT608A	Manage innovation and continuous improvement	60
BSBSBM402A	Undertake financial planning	50
BSBSBM403A	Promote the business	40
BSBSBM404A	Undertake business planning	50
BSBSBM406A	Manage finances	50
AUR17665B	Remove, fit and adjust wheel(s)	18
AUR17966A	Remove, repair and refit tyres and tubes (heavy)	36
MNCG1035A	Apply operational maintenance skills	50
MNCG1038A	Perform basic cutting and welding	50
MNCG1040A	Operate gantry crane	40
MNCG1041A	Conduct non-slewing crane operations	40
MNCG1042A	Conduct slewing crane operations	50
MNCG1043A	Conduct dogging operations	35
PMLORG600A	Supervise laboratory operations in work/functional area	60
MNQOPS202A	Conduct dewatering operations	25
MNQOPS214A	Conduct workboat/barge operations	50
MNQOPS221A	Conduct crushing operations	20
MNQOPS222A	Conduct blending plant operations	25
MNQOPS223A	Conduct sand wash plant operations	35

MNQOPS224A	Treat and dispose of rejects and tailings	25
MNQOPS225A	Operate programmed logic control systems	25
MNQOPS226A	Conduct screening operations	25
MNQOPS231A	Service and handover front end loaders	40
MNQOPS232A	Service and handover hydraulic shovels/excavators	40
MNQOPS233A	Service and handover haul trucks	40
MNQOPS234A	Service and handover dozers	40
MNQOPS235A	Service and handover scrapers	40
MNQOPS236A	Service and handover graders	40
MNQOPS237A	Conduct bulk water truck operations	40
MNQOPS262A	Operate medium vehicle	40
MNQOPS311A	Conduct blast survey	20
MNQOPS312A	Conduct blast hole drilling operations	50
MNQOPS313A	Handle and transport explosives	30
MNQOPS314A	Conduct dredging operations	45
MNQOPS321A	Conduct crushing and screening plant operations	45
MNQOPS325A	Operate centralised process control systems	40
MNQOPS331A	Conduct face loader operations	50
MNQOPS332A	Conduct hydraulic shovel/excavator operations	50
MNQOPS333A	Conduct haul truck operations	50
MNQOPS334A	Conduct dozer operations	50
MNQOPS335A	Conduct scraper operations	50
MNQOPS336A	Conduct grader operations	50
MNQOPS339A	Conduct sales loader operations	40

MNQOPS355A	Service and maintain crushers	30
MNQOPS356A	Service and maintain screens	30
MNQOPS357A	Service and maintain conveyors, feeders and hoppers	30
MNQOPS358A	Service and maintain pumps	30
MNQOPS401A	Apply pit plan	30
MNQOPS402A	Apply site water management plan	20
MNQOPS403A	Apply site plant and resource management plan	20
MNQOPS405A	Supervise site rehabilitation operations	20
MNQOPS413A	Conduct shotfiring	70
MNQOPS414A	Supervise dredging operations	45
MNQOPS420A	Supervise processing operations	40
MNQOPS424A	Apply site waste and by-products management plan	25
MNQOPS426A	Supervise recycled materials operations	20
MNQOPS427A	Supervise operation of electrical equipment and installations	40
MNQOPS430A	Supervise mobile plant operations	35
MNQOPS440A	Apply site stockpile management plan	15
MNQOPS450A	Apply site plant, equipment and infrastructure maintenance management plan	20
MNQOPS501A	Implement pit plan	160
MNQOPS502A	Implement site water management plan	60
MNQOPS503A	Implement site plant and resource management plan	15
MNQOPS504A	Select and install quarry plant and equipment	50
MNQOPS511A	Design surface blasts	60
MNQOPS512A	Manage blast hole drilling operations	50
MNQOPS513A	Manage blasting operations	40

MNQOPS514A	Manage dredging operations	50
MNQOPS520A	Implement site processing plant operations	30
MNQOPS524A	Implement site waste and by-product management plan	70
MNQOPS540A	Implement stockpile management plan	36
MNQOPS550A	Implement and maintain the site plant, equipment and infrastructure maintenance plan	50
MNQOPS600A	Establish quarry development	60
MNQOPS601A	Plan pit development	60
MNQOPS602A	Establish the water management system	60
MNQOPS604A	Design processing plant	60
MNQOPS624A	Establish waste and by-product management system	45
MNQOPS640A	Establish the stockpile management system	45
MNQOPS650A	Establish plant, equipment and infrastructure maintenance system	45

Traineeships and Apprenticeships:

The following table provides a summary of the qualifications in the Extractive Industry Training Package MNQ03 and the accredited traineeship, apprenticeship and pre-apprenticeship courses they will replace.

Traineeships:

Accredited Course	Training Package Qualification
Current qualification	Replacement qualification
Traineeship: Certificate II in Extractive Industries (Operator) MNQ20198 Nominal hours: 350	Certificate II in Extractive Industries (Operator) MNQ20103 Nominal hours: 295
Certificate III in Extractive Industries (Operator) MNQ30198 Nominal hours: 775	Certificate III in Extractive Industries (Operator) MNQ30103 Nominal hours: 525

Establishment of New Traineeships

Traineeships may be established from the Training Package, providing evidence confirming industry support is supplied, a Training Record Book (or a suitable replacement) is available and the Department receives information outlining the industrial relations arrangements. When a new or replacement Traineeship is established, a cut-over date will be set, after which all enrolments must be into the new Traineeship.

Level 1 Traineeships are not funded in Western Australia.

Apprenticeships

There are no apprenticeships in this field.

Training Package qualifications which replace qualifications from an earlier version of a training package:

The following table provides an overview of the qualifications which replace an earlier version of the Training Package.

Training Package Qualification	Training Package Qualification
Current qualification	Replacement qualification
Qualification Code and Name	Qualification Code and Name
MNQ20198 Certificate II in Extractive Industries (Operator)	MNQ20103 Certificate II in Extractive Industries Operations
MNQ30198 Certificate III in Extractive Industries (Operator)	MNQ30103 Certificate III in Extractive Industries Operations
MNQ40198 Certificate IV in Extractive Industries Operations	MNQ40103 Certificate IV in Extractive Industries Operations
MNQ50198 Diploma of Extractive Industries Management	MNQ50103 Diploma of Extractive Industries Management
MNQ60198 Advanced Extractive Industries Management	MNQ60103 Advanced Extractive Industries Management

Training package units of competency which replace units of competency from an earlier version of a training package:

Extractive Industries Training Package Review - Mapping of Changes to Units of Competency

Existing Unit	New Unit	Changes
MNQOP01A Work safely	MNQGEN210A Work safely	<p>Changes are:</p> <ul style="list-style-type: none"> • risk management has been removed and included in MNQGEN200A • First Aid requirement has been removed and included in HLTFA1A • fire fighting and manual handling requirements have been added <p>ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have ALSO been applied</p>
MNQOP02A Work cooperatively with others	Deleted	These are Key Competencies and thus in all units
MNQOP03A Solve operational problems	Deleted	
MNQOP04A Plan and organise individual work	Deleted	

Existing Unit		New Unit		Changes
MNQOP05 A	Contribute to quality system	MNQGEN230A	Contribute to site quality outcomes	<p>Changes are:</p> <ul style="list-style-type: none"> • performance indicator adjustment requirements have been added • monitoring of work processes has been added • communication and resolution of improvements has been added • completion of documentation has been added <p>A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied</p>
MNQOP08A	Carry out crushing and screening plant operations – fixed and mobile	MNQOPS321A	Conduct crushing and screening plant operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP09A	Carry out blending plant operations	MNQOPS222A	Conduct blending plant operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP10A	Carry out sand plant operations	MNQOPS223A	Conduct sand wash plant operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP11A	Dewater operational areas	MNQOPS202A	Conduct dewatering operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit		Changes
MNQOP12A	Conduct minor repairs and carry out basic servicing - fixed plant		Deleted	No equivalent single unit. The following new units cover basic operational maintenance skills and the requirements for the service and maintenance of specific types of equipment: <ul style="list-style-type: none"> • MNCG1035A • MNQOPS355A • MNQOPS356A • MNQOPS357A • MNQOPS358A
MNQOP13A	Stockpile, load and dispatch product		Deleted	No equivalent unit. Unit MNQOPS339A covers front-end loader application in stockpiling
MNQOP14A	Treat and dispose of rejects and tailings	MNQOPS224A	Treat and dispose of rejects and tailings	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP15A	Operate programmable logic control systems	MNQOPS225A	Operate programmable logic control systems	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP16A	Conduct sampling operations	MNQGEN231A	Conduct sampling operations	Changes are: <ul style="list-style-type: none"> • an element to cover the storage and dispatch of samples has been added ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied

Existing Unit		New Unit		Changes
MNQOP17A	Conduct laboratory operations	MNQGEN332A	Conduct site laboratory operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP18A	Carry out weighbridge operations	MNQGEN351A	Conduct weighbridge operations	Changes are: <ul style="list-style-type: none"> vehicle despatch has been removed control of vehicle movements on site has been added A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied
MNQOP19A	Carry out dredging operations	MNQOPS314A	Conduct dredging operations	These units are equivalent, changes include: New title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP20A	Conduct grader operations	MNQOPS336A	Conduct grader operations	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP21A	Conduct front end loader operations		Deleted	No equivalent single unit. The following unit cover application of front-end loaders in specific roles: <ul style="list-style-type: none"> MNQOPS331A MNQOPS339A
MNQOP22A	Conduct shovel/excavator operations	MNQOPS332A	Conduct hydraulic shovel/excavator operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit		Changes
MNQOP23A	Conduct haul truck operations	MNQOPS333A	Conduct haul truck operations	These units are equivalent other than that water truck operation has have been removed and included in unit MNQOPS237A. ANTA template, plain English, active voice, improved linkage of Range Statements to PC's have also been applied
MNQOP24A	Conduct dozer operations	MNQOPS334A	Conduct dozer operations	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP25A	Conduct scraper operations	MNQOPS335A	Conduct scraper operations	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP26A	Operate medium vehicles	MNQOPS262A	Operate medium vehicle	These units are equivalent other than the deletion of loading and unloading the vehicle from the new unit. The structure of the new unit is similar MNC1062A. ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied
MNQOP27A	Operate miscellaneous quarry support equipment	Deleted		No equivalent single unit. The following unit cover specific types of cranes: <ul style="list-style-type: none"> • MNCG1040A • MNCG1041A • MNCG1042A

Existing Unit		New Unit	Changes
MNQOP28A	Conduct minor repairs and carry out basic servicing - mobile plant	Deleted	No equivalent single unit. The following new units cover the servicing of individuals machine types: <ul style="list-style-type: none"> • MNQOPS231A • MNQOPS232A • MNQOPS233A • MNQOPS234A • MNQOPS235A • MNQOPS236A
MNQOP29A	Fit and maintain tyres and wheels	Deleted	No equivalent single unit. The following new units cover this area of competence: <ul style="list-style-type: none"> • AUR17665A • AUR17966A
MNQOP30A	Carry out blast surveys	MNQOPS311A Conduct blast survey	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQOP31A	Conduct drilling operations	MNQOPS312A Conduct blast hole drilling operations	These units are equivalent other than the deletion of the requirement to prepare pads, roads and ramps A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied

Existing Unit		New Unit		Changes
MNQOP32A	Carry out shot firing	MNQOPS413A	Conduct shot firing	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
BSZ402A	Conduct assessment, with BSZ401A Plan assessment BSZ403A Review assessment		Deleted	
BSZ404A	Train small groups		Deleted	
		MNQGEN200A	Conduct local risk control	New unit
		MNQGEN240A	Communicate in the workplace	New unit
		MNQGEN300A	Apply risk management processes	New unit
		MNQGEN310A	Conduct safety and health investigations	New unit
		MNQGEN340A	Communicate information	New unit
		MNQOPS214A	Conduct workboat/barge operations	New unit
		MNQOPS221A	Conduct crushing operations	New unit

Existing Unit	New Unit	Changes
	MNQOPS226A Conduct screening operations	New unit
	MNQOPS231A Service and handover front end loaders	New unit
	MNQOPS232A Service and handover hydraulic shovel/excavators	New unit
	MNQOPS233A Service and handover haul trucks	New unit
	MNQOPS234A Service and handover dozers	New unit
	MNQOPS235A Service and handover scrapers	New unit
	MNQOPS236A Service and handover graders	New unit
	MNQOPS237A Conduct bulk water truck operations	New unit
	MNQOPS313A Handle and transport explosives	New unit
	MNQOPS325A Operate centralised process control systems	New unit
	MNQOPS331A Conduct face loader operations	This new unit is similar to MNQOP21A other than it is limited in its application to face loading

Existing Unit	New Unit	Changes
	MNQOPS339A Conduct sales loader operations	This new unit includes the front end loader requirements of MNQOP13A (stockpiling) and sales loader application of MNQOP21A
	MNQOPS355A Service and maintain crushers	New unit
	MNQOPS356A Service and maintain screens	New unit
	MNQOPS357A Service and maintain conveyors, feeders and hoppers	New unit
	MNQOPS358A Service and maintain pumps	New unit
	MNCG1035A Apply operational maintenance skills	New unit
	MNCG1038A Perform basic cutting and welding	New unit
	MNCG1040A Operate gantry crane	New unit
	MNCG1041A Conduct non-slewing crane operations	New unit
	MNCG1042A Conduct slewing crane operations	New unit
	MNCG1043A Conduct dogging operations	New unit

Existing Unit	New Unit	Changes
	BSBCM215A Participate in environmental work practices	New unit
	BSBCM313A Maintain environmental procedures	New unit
	BSBFLM302A Support leadership in the workplace	New unit
	BSBFLM303A Contribute to effective workplace relationships	New unit
	BSBFLM304A Participate in work teams	New unit
	PMLDATA300A Process and record data	New unit
	ICAITU128A Operate a personal computer	New unit
	HLTFA1A Apply basic First Aid	New unit
	AUR17665A Remove, fit and adjust wheel(s)	New unit
	AUR17966A Remove, repair and refit tyres and tubes (heavy)	New unit
MNQTL01A Implement, monitor, rectify and report statutory/legal compliance	MNQGEN401A Apply site statutory compliance management plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit	Changes
MNQTL02A	Implement, monitor and report on the risk management process associated with occupational health and safety and environment	Deleted	No equivalent single unit. The following new units cover the areas of activity of the deleted unit: <ul style="list-style-type: none"> • MNQGEN400A • BSBCM411A • BSBCM413A
MNQTL05A	Implement pit development, monitor and report	MNQOPS401A Apply pit plan	These units are equivalent other than specific reference to supervision of blasting being removed. A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied

Existing Unit	New Unit	Changes
MNQTL06A Lead and monitor quarry operations and report outcomes	Deleted	No equivalent single unit. The following new units cover the areas of activity of the deleted unit: <ul style="list-style-type: none"> • MNQGEN401A • MNQGEN430A • MNQOPS401A • MNQOPS420A • MNQOPS430A • MNQOPS450A • BSBCMN411A • BSBCMN413A • BSBFLM404A • BSBFLM405A • BSBFLM409A
MNQTL07A Implement and monitor quarry operational performance management system	BSBFLM405A Implement operational plan	These units are equivalent
MNQTL08A Implement and monitor quality system	MNQGEN430A Apply site quality plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit		Changes
MNQTL09A	Participate in, lead and facilitate work teams	BSBFLM404A	Lead work team	These units are equivalent
MNQTL10A	Implement and monitor continuous improvement systems and processes	BSBFLM409A	Implement continuous improvement	These units are equivalent
MNQTL20A	Manage quality customer service	BSBCMN410A	Coordinate implementation of customer service strategies	These units are equivalent
		MNQGEN400A	Apply site risk management system	New unit
		MNQGEN403A	Foster positive community relations	New unit based on the Public Safety unit PUACOM005A but without the element “Advise and involve the community in public safety activities”
		MNQGEN404A	Supervise dust and noise control	New unit
		MNQOPS402A	Apply site water management plan	New unit
		MNQOPS403A	Apply site plant and resource management plan	New unit

Existing Unit	New Unit	Changes
	MNQOPS405A Supervise rehabilitation operations	New unit
	MNQOPS414A Supervise dredging operations	New unit
	MNQOPS420A Supervise processing operations	New unit
	MNQOPS424A Apply site waste and by-products management plan	New unit
	MNQOPS426A Supervise recycled materials operations	New unit with similar outcomes to MNQQM15A but at supervisor (AQF 4) level
	MNQOPS427A Supervise operation of electrical equipment and installations	New unit
	MNQOPS430A Supervise mobile plant operations	New unit
	MNQOPS440A Apply site stockpile management plan	New unit
	MNQOPS450A Apply site plant, equipment and infrastructure maintenance management plan	New unit
	BSBCMN404A Develop teams and individuals	New unit

Existing Unit	New Unit	Changes
	BSBCM408A Report on financial activities	New unit
	BSBCM411A Monitor a safe workplace	New unit
	BSBCM413A Implement and monitor environmental policies	New unit
	BSBSBM402A Undertake financial planning	New unit
	BSBSBM403A Promote the business	New unit
	BSBSBM404A Undertake business planning	New unit
	BSBSBM406A Manage finances	New unit
	PMLORG600A Supervise laboratory operations in work/function area	New unit
MNQQM01A Implement and maintain statutory/legal compliance system	Deleted	No directly equivalent unit. MNQGEN500A has similar outcomes

Existing Unit	New Unit	Changes
MNQQM02A Implement and maintain site risk management processes associated with occupational health and safety and environment systems	Deleted	No directly equivalent unit. MNQGEN500A has similar outcomes
MNQQM05A Implement and maintain pit development plan	MNQOPS501A Implement pit plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQQM06A Implement, lead and maintain quarry operations	Deleted	No equivalent single unit. The following new units cover the areas of activity of the deleted unit: <ul style="list-style-type: none"> • MNQGEN500A • MNQOPS501A • MNQOPS503A • MNQOPS520A • MNQOPS550A • BSBMGT503A • BSBFLM504A • BSBFLM505A • BSBFLM509A

Existing Unit		New Unit		Changes
MNQQM07A	Implement and maintain operational performance management system	BSBFLM505A	Manage operational plan	These units are equivalent
MNQQM08A	Implement and promote quality system	Deleted		No directly equivalent unit. MNQGEN500A has similar outcomes
MNQQM09A	Organise and manage team performance	BSBFLM504A	Facilitate work teams	These units are equivalent
MNQQM10A	Implement and promote continuous improvement processes	BSBFLM509A	Promote continuous improvement	These units are equivalent
MNQQM11A	Select and commission quarry plant and equipment	MNQOPS504A	Select and install quarry plant and equipment	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQQM12A	Plan, conduct and oversee drilling operations	MNQOPS512A	Manage blast hole drilling operations	These units are equivalent other than maintenance management requirement has been deleted. A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied

Existing Unit		New Unit		Changes
MNQQM13A	Manage blasting operations		Deleted	No equivalent single unit. The following new units cover the areas of activity of the deleted unit: <ul style="list-style-type: none"> • MNQOPS511A • MNQOPS513A
MNQQM14A	Plan and monitor water management	MNQOPS502A	Implement site water management plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQQM15A	Plan and monitor recycled materials operations	MNQOPS426A	Supervise recycled materials operations	No direct equivalent unit. MNQOPS426A has similar outcomes at supervisor (AQF 4) level only.
MNQQM16A	Design stockpile formations and reclaiming systems	MNQOPS540A	Implement stockpile management plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQQM17A	Develop, implement and maintain process control systems	MNQOPS604A	Design processing plants	No equivalent unit. New unit MNQOPS604A includes the design of processing control systems at Advanced Diploma level only
MNQQM18A	Design and monitor dredging/barge operations (sluicing) sand and gravel	MNQOPS514A	Manage dredging operations	These units are equivalent other than: <ul style="list-style-type: none"> • references to barging have been removed • shore plant layout requirements have been removed A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have also been applied

Existing Unit	New Unit	Changes
MNQQM19A Design and maintain by-product disposal and water recycling system and settling ponds	MNQOPS524A Implement site waste and by-product management plan	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQQM20A Conduct sales in an extractive operation	MNQGEN552A Conduct sales in construction materials operations	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied The application has been broadened to include all construction materials products, not just extractive operations sales
	MNQGEN500A Implement and maintain management plans to control risk	New unit. This unit can be applied to implementing the site management plans for: <ul style="list-style-type: none"> • risk management • statutory compliance • occupational health and safety • environment • quality and/or • business risk, such as credit, contracts, capital expenditure
	MNQOPS503A Implement site plant and resource management plan	New unit

Existing Unit	New Unit	Changes
	MNQOPS511A Design surface blasts	New unit
	MNQOPS513A Manage blasting operations	New unit
	MNQOPS520A Implement site processing plant operations	New unit
	MNQOPS550A Implement and maintain the site plant, equipment and infrastructure maintenance plan	New unit
	BSBFLM501A Manage personal work priorities and professional development	New unit
	BSBFLM502A Provide leadership in the workplace	New unit
	BSBFLM503A Establish effective workplace relationships	New unit
	BSBFLM510A Facilitate and capitalise on change and innovation	New unit
	BSBFLM511A Develop workplace learning environment	New unit
	BSBMGT503A Prepare budget and financial plan	New unit

Existing Unit		New Unit	Changes
MNQSM01A	Design, implement, maintain and evaluate statutory/legal compliance system	MNQGEN601A Establish and maintain the statutory compliance management system	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQSM02A	Implement and maintain site risk management processes associated with occupational health and safety and environment systems	Deleted	No equivalent single unit. The following new units cover the areas of activity of the deleted unit: <ul style="list-style-type: none"> • MNQGEN600A • MNQGEN610A • MNQGEN620A
MNQSM03A	Conduct feasibility study	MNQGEN661A Conduct feasibility study	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit		Changes
MNQSM04A	Design, plan and implement quarry development	Deleted		No single equivalent unit. The following units cover the work in the existing unit: <ul style="list-style-type: none"> • MNQGEN660A • MNQGEN661A • MNQGEN663A • MNQGEN664A • MNQOPS600A • MNQOPS504A
MNQSM05A misnumbered MNQSM07A	Plan pit development	MNQOPS601A	Plan pit development	These units are equivalent other than ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQSM06A	Develop, implement and lead quarry operations	MNQGEN660A	Establish quarry operations	These units are equivalent other than quarry development approval and maintenance planning requirements are deleted A new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQSM07A misnumbered MNQSM05A	Design and implement operational performance management system	MNQGEN662A	Establish operational performance management system	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied

Existing Unit		New Unit		Changes
MNQSM08A	Design, implement, maintain and evaluate quality system	MNQGEN630A	Establish and maintain the quality system	These units are equivalent other than the new title and ANTA template, plain English, active voice and improved linkage of Range Statements to PC's have been applied
MNQSM09A	Design, implement, maintain and evaluate team based work organisation	BSBMGT605A	Provide leadership across the organisation	These units are equivalent
MNQSM10A	Design, implement, maintain and evaluate continuous improvement processes	BSBMGT608A	Manage innovation and continuous improvement	These units are equivalent
		MNQGEN600A	Establish and maintain the risk management system	New unit
		MNQGEN602A	Manage major incidents and emergencies	New unit
		MNQGEN610A	Establish and maintain the occupational health and safety management system	New unit
		MNQGEN620A	Establish and maintain the environmental management system	New unit

Existing Unit	New Unit	Changes
	MNQGEN663A Initiate, monitor and supervise contracts	New unit
	MNQGEN664A Conduct business negotiations	New unit
	MNQOPS600A Establish quarry development	New unit
	MNQOPS602A Establish the water management system	New unit
	MNQOPS604A Design processing plant	New unit
	MNQOPS624A Establish waste and by-product management system	New unit
	MNQOPS640A Establish the stockpile management system	New unit
	MNQOPS650A Establish plant, equipment and infrastructure maintenance system	New unit
	BSBMGT603A Review and develop business plan	New unit
	BSBMGT607A Manage knowledge information	New unit

Examples Of Training Package Programs

Units of competency may be customised so that the tasks involved in demonstrating competence are designed to meet the requirements of an individual enterprise or to satisfy regulations in a particular state or territory.

Each qualification in the Extractive Industries Training Package MNQ03 may be customised to meet the context in which the training is taking place. A qualification can also be customised to accommodate a learner's chosen career pathway.

The following are examples of suitable training programs for Extractive Industries Training Package MNQ03. The models are not intended to be prescriptive but illustrate ways that qualifications can be achieved.

**Sample Training Program #1:
Certificate II in Extractive Industries Operations MNQ20103**

Qualification Title	Certificate II in Extractive Industries Operations
Qualification Code	MNQ20103
Qualification Summary	<p>This course reflects the role of employees in a quarry or other extractive industries operations who undertake a prescribed range of functions involving known routines and procedures and who take some responsibility for the quality of work outcomes.</p> <p>The worker will normally be engaged in a workplace in which they:</p> <ul style="list-style-type: none"> ▪ demonstrate basic operational knowledge in a moderate range of areas ▪ apply a defined range of skills ▪ apply known solutions to a limited range of predictable problems ▪ perform a range of tasks where choice between a limited range of options is required ▪ assess and record information from varied sources ▪ take limited responsibility for their own outputs in work and learning.
Qualification Packaging Rules	<p>Successful completion of eight (8) units of competency made up of:</p> <p>One (1) mandatory unit of competency</p> <p>Seven (7) elective units of competency made up of:</p> <p>all seven (7) electives drawn from the extractive industry units listed</p> <p>OR</p> <p>a minimum of five (5) units drawn from the specified extractive industry units listed</p> <p>A maximum of two (2) units, relevant to the job function, drawn from the Certificate III in Extractive Industries Operations or from other endorsed Training Packages.</p>

Unit Code	Unit Title	Nominal Hours
Mandatory core units		
MNQGEN210A	Work safely	30
Mandatory sector specialist units		
Other elective units		
MNQOPS237A	Conduct bulk water truck operations	40
MNQOPS311A	Conduct blast survey	20
MNQOPS312A	Conduct blast hole drilling operations	50
MNQOPS313A	Handle and transport explosives	30
MNQOPS202A	Conduct dewatering operations	25
MNQOPS336A	Conduct grader operations	50
MNQOPS331A	Conduct face loader operations	50
	TOTAL	295

**Sample Training Program #2:
Certificate III in Extractive Industries Operations MNQ30103**

Qualification Title	Certificate III in Extractive Industries Operations
Qualification Code	MNQ30103
Qualification Summary	This course reflects the role of employees in a quarry or other extractive industries operations who perform tasks involving a broad range of skilled applications applied in a wide variety of contexts, which may involve application of some discretion and judgment in selecting equipment, services or contingency measures.
Qualification Packaging Rules	<p>Successful completion of fifteen (15) units of competency made up of: eight (8) units of competency satisfying the criteria for the Certificate II in Extractive Industries Operations</p> <p>PLUS</p> <p>seven (7) elective units made up of:</p> <p>all seven (7) electives drawn from the Extractive Industry units listed</p> <p>OR</p> <p>a minimum of five (5) elective units of competency from the specified extractive industry units listed</p> <p>a maximum two (2) elective units, relevant to the job function, drawn from the Certificate II in Extractive Industry Operations or the Certificate IV in Extractive Industries Operations or any other endorsed Training Package</p>

Unit Code	Unit Title	Nominal Hours
Mandatory core units		
MNQGEN210A	Work safely	30
Mandatory sector specialist units		
Other elective units		
MNQGEN200A	Conduct local risk control	15
MNQGEN230A	Contribute to site quality outcomes	20
MNQGEN240A	Communicate in the workplace	15
BSBCM215A	Participate in environmental work practices	10
ICAITU128A	Operate a personal computer	20
HLTFA1A	Apply basic first aid	20
MNQOPS202A	Conduct dewatering operations	25
MNQOPS331A	Conduct face loader operations	50
MNQOPS332A	Conduct hydraulic shovel/excavator operations	50
MNQOPS333A	Conduct haul truck operations	50
MNQOPS334A	Conduct dozer operations	50
MNQOPS335A	Conduct scraper operations	50
MNQOPS336A	Conduct grader operations	50
MNQOPS413A	Conduct shotfiring	70
TOTAL		525

**Sample Training Program #3:
Certificate IV in Extractive Industries Operations MNQ40103**

Qualification Title	Certificate IV in Extractive Industries Operations
Qualification Code	MNQ40103
Qualification Summary	<p>This course reflects the role of employees in a quarry or other extractive industries operations who perform tasks involving a broad range of varied activities most of which are complex and non-routine. They are responsible for applying the site work instructions and practices to ensure the quantity and quality of the output of others and contribute to the development of technical solutions to non-routine problems</p> <p>The worker will normally be engaged in a workplace in which they:</p> <ul style="list-style-type: none"> ▪ demonstrate understanding of a broad knowledge base incorporating some theoretical concepts ▪ apply solutions to a defined range of unpredictable problems ▪ identify and apply skill and knowledge areas to a wide variety of contexts, in some cases in depth ▪ identify, analyse and evaluate information from a variety of sources ▪ take responsibility for their own outputs in relation to specified quality standards ▪ take limited responsibility for the quantity and quality of the output of others.
Qualification Packaging Rules	<p>Successful completion of thirteen (13) units of competency made up of: four (4) mandatory units of competency</p> <p>nine (9) elective units to be completed made up of:</p> <ul style="list-style-type: none"> - a minimum of three (3) units from the specified General Management units - a minimum of three (3) units from the specified Technical Management units - a maximum of three (3), relevant to the job function, drawn from the Diploma of Extractive Industries Management or other endorsed Training Packages.

Unit Code	Unit Title	Nominal Hours
Mandatory core units		
MNQGEN401A	Apply site statutory compliance management plan	70
MNQOPS401A	Apply pit plan	30
BSBCMN411A	Monitor a safe workplace	40
MNQGEN400A	Apply site risk management system	40
Mandatory sector specialist units		
General Management elective units		
MNQGEN403A	Foster positive community relations	20
MNQGEN404A	Supervise dust and noise control	40
MNQGEN430A	Apply site quality plan	30
Technical Management elective units		
MNQOPS413A	Conduct shotfiring	70
MNQOPS414A	Supervise dredging operations	45
MNQOPS420A	Supervise processing operations	40
other elective units		
BSBCMN404A	Develop teams and individuals	40
BSBCMN408A	Report on financial activities	40
BSBSBM406A	Manage finances	50
Pre-requisite units		
ICAITU128A	Operate a personal computer	20
PMLDATA300A	Process and record data	40
	TOTAL	615

**Sample Training Program #4:
Diploma of Extractive Industries Management MNQ50103**

Qualification Title	Diploma of Extractive Industries Management
Qualification Code	MNQ50103
Qualification Summary	This qualification reflects the role of personnel working in a quarry or other extractive industries operations, on a single or a group of sites, who perform tasks involving a high level of autonomy and requiring the application of significant judgement in planning and determining the selection of equipment/roles/techniques for themselves and others. They are required to develop site specific work instructions and practices to ensure the implementation of the site management systems, plans and policies. They demonstrate the application of a broad range of technical, managerial, coordination and planning skills.
Qualification Packaging Rules	<p>Successful completion of twenty four (24) units of competency made up of:</p> <p>thirteen (13) units of competency satisfying the criteria for the Certificate IV in Extractive Industries Operations</p> <p>PLUS</p> <p>two (2) mandatory units of competency</p> <p>nine (9) elective units to be completed which include:</p> <p>a minimum of three (3) units from the specified General Management units</p> <p>a minimum of three (3) units from the specified Technical Management units</p> <p>a maximum of three (3) units, relevant to the job function, drawn from the Certificate IV in Extractive Industries Operations or the Advanced Diploma of Extractive Industries Management or any other endorsed Training Packages.</p>

Unit Code	Unit Title	Nominal Hours
Mandatory core units		
MNQGEN500A	Implement and maintain management plans to control risk	60
MNQOPS501A	Implement pit plan	160
Mandatory sector specialist units		
General Management elective units		
BSBFLM503A	Establish effective workplace relationships	60
BSBFLM504A	Facilitate work teams	40
BSBFLM505A	Manage operational plan	60
Technical Management elective units		
MNQOPS524A	Implement site waste and by-product management plan	70
MNQOPS540A	Implement stockpile management plan	36
MNQOPS550A	Implement and maintain the site plant, equipment and infrastructure maintenance plan	50
Other elective units		
BSBFLM509A	Promote continuous improvement	60
BSBFLM510A	Facilitate and capitalise on change and innovation	60
BSBFLM511A	Develop a workplace learning environment	60
Diploma TOTAL		716
Plus Certificate IV hours if student entering directly into the Diploma		1331

**Sample Training Program #5:
Advanced Diploma of Extractive Industries Management MNQ60103**

Qualification Title	Advanced Diploma of Extractive Industries Management	
Qualification Code	MNQ60103	
Qualification Summary	This qualification reflects the role of personnel working in a quarry or other extractive industries operations who perform tasks that are broad, specialized, complex and technical and include strategic areas and initiating activities. They are responsible for the establishment of the site management systems, plans and policies and are required to demonstrate self-directed application of theoretical and technical knowledge and initiate solutions to technical problems or management requirements.	
Qualification Packaging Rules	Successful completion of fourteen (14) units of competency made up of: a minimum of 10 units from the extractive industries General Management and Technical Management units listed a maximum of 4 units, relevant to the job function, drawn from the Diploma of Extractive Industries Management, or other endorsed Training Packages.	
Unit Code	Unit Title	Nominal Hours
Mandatory core units		
Mandatory sector specialist units		
General Management elective units		
MNQGEN600A	Establish and maintain the risk management system	70
MNQGEN601A	Establish and maintain the statutory compliance management system	70
MNQGEN602A	Manage major incidents and emergencies	50
MNQGEN610A	Establish and maintain the occupational health and safety management system	60
MNQGEN620A	Establish and maintain the environmental management system	60
MNQGEN630A	Establish and maintain the quality system	50
MNQGEN660A	Establish quarry operations	80
Technical Management elective units		
MNQOPS600A	Establish quarry development	60
MNQOPS601A	Plan pit development	60
MNQOPS602A	Establish the water management system	60
MNQOPS604A	Design processing plant	60
MNQOPS624A	Establish waste and by-product management system	45
MNQOPS640A	Establish the stockpile management system	45
MNQOPS650A	Establish plant, equipment and infrastructure maintenance system	45
TOTAL		815