

LEVEL 4 BITUMINOUS PRODUCT MANUFACTURING



NEW ZEALAND CERTIFICATE IN BITUMINOUS PRODUCT MANUFACTURING

(with strands in Binder Manufacturing Operation, Bituminous Mixes Operation, and Bitumen Spraying Operation)

NZQA REF: 2687 **86 credits**

FORMAL RECOGNITION FOR SKILLED INFRASTRUCTURE WORKERS

This qualification is designed to give you the knowledge and skills to work with limited or no supervision to produce quality bituminous product for pavement surfacing.



L4

BITUMINOUS
PRODUCT
MANUFACTURING

WHICH SKILLS DOES IT COVER?

Developed with industry, for industry, this qualification represents best practice. It covers core skills including:

- Safety and quality assurance
- Applying knowledge of bituminous surfacings, materials, the supply chain and plant and equipment used for manufacturing bituminous binders.
- Carrying out the requirements for storing, handling and pumping liquid bituminous products
- Internal and external communication

Plus the skills in one of the following strands:

BINDER MANUFACTURING OPERATION:

- Operating a manufacturing binder plant

BITUMINOUS MIXES OPERATION:

- Operating a bituminous mix plant

BITUMINOUS SPRAYING OPERATION:

- Operating a bitumen distributor

ENTRY REQUIREMENTS:

It is recommended that people achieve the Level 3 New Zealand Certificate in Infrastructure Works and/or Level 3 New Zealand Certificate in Plant and Equipment Operation, or demonstrate equivalent knowledge and experience, before attempting this qualification.

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WHO IS THIS QUALIFICATION FOR?

This qualification is for you if you are working in the surfacing sector on both small and large operations, contributing to the building of quality infrastructure.

WHERE CAN IT TAKE YOU?

Completion of this Level 4 qualification, combined with 8,000 hours of experience, will make you eligible to apply for Civil Trades Certification. Check with your Connexis Customer Service Account Manager (CSAM) for more information on Civil Trades Certification.

The New Zealand Certificate in Bituminous Product Manufacturing can also lead into qualifications in Infrastructure Works Site Supervision and First Line Management.



HOW IS THE QUALIFICATION ACHIEVED?

The qualification will take around 12-18 months, depending on the strand selected. Achievement is through completion of all core components plus at least one of the three strands.

The New Zealand Certificate in Bituminous Product Manufacturing includes both theory and practical tasks, with assessments taking place on-job.

People with significant industry experience may be able to achieve the qualification through Recognition of Current Competence (RCC). This is a process which recognises the skills and knowledge already gained from previous work and/or study.

BENEFITS OF THIS QUALIFICATION

FOR YOU	FOR YOUR EMPLOYER
<ul style="list-style-type: none">• Formal recognition of your skills and knowledge – approved by industry• Become highly skilled in your field• Enhances your career prospects• Provides a springboard to further training and higher qualifications	<ul style="list-style-type: none">• Employees can work with limited supervision• Meets compliance requirements• Increased productivity• Higher standards – less rework• Greater safety awareness

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COMPANY NAME:		TRAINEE NAME:	PHONE:	NSN:
UNIT STANDARD	LEVEL 4 (QUALIFICATION VERSION 1) NZQA REF: 2687			LEVEL CREDIT
28678	Demonstrate knowledge of environmental protection and safety for bituminous surfacing production and application			4 10
28679	Demonstrate knowledge of bituminous surfacings and their uses			4 6
28680	Demonstrate knowledge of materials used in bituminous surfacings			4 6
28681	Demonstrate knowledge of supply chains and plant and equipment for bituminous binder production			4 6
28682	Describe quality control for manufacturing bituminous surfacing products			4 6
28683	Explain and carry out safety procedures and processes for storage and handling of liquid bituminous products			4 6
9695	Examine problem-solving models and explain associated techniques			4 3
28684	Gather information, purchase supplies, and resolve issues relating to the production of bituminous materials			4 3
BINDER MANUFACTURING OPERATION STRAND				
28691	Demonstrate knowledge of equipment and processes for manufacturing bituminous binders			4 6
28692	Demonstrate knowledge of production planning for manufacturing bituminous binders			4 6
28693	Explain the design fundamentals of bituminous binders			4 6
28694	Produce binders at a bituminous binder plant			4 22
BITUMINOUS MIXES OPERATION STRAND				
28687	Demonstrate knowledge of bituminous manufacturing plants and their processes			4 6
28688	Demonstrate knowledge of production planning for manufacturing bituminous surfacing products			4 6
28689	Explain mix design fundamentals for bituminous products			4 6
28690	Manufacture surfacing products at a bituminous mix plant			4 22
BITUMINOUS SPRAYING OPERATION STRAND				
28695	Demonstrate knowledge of bitumen distributor equipment and blending, and the application of bituminous binders			4 6
28696	Demonstrate knowledge of planning for blending and applying bituminous binders with a bitumen distributor			4 6
28697	Demonstrate knowledge of binder spraying fundamentals			4 6
28698	Operate a bitumen distributor for blending and applying bituminous binders			4 22

FURTHER INFORMATION

BROCHURE VERSION 1

WANT TO ENROL OR FIND OUT MORE? CONTACT US AND WE'LL PUT YOU IN TOUCH WITH YOUR LOCAL CUSTOMER SERVICE ACCOUNT MANAGER



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