



Chipseal Materials



Domestic Fees

\$645 per person + GST



International Fees

\$645 per person + GST



Intakes

27/07/2026

17/08/2026

19/10/2026



Campus

Auckland
Palmerston North
Hamilton



Duration

Half Day



nziht.co.nz



nziht



WITT

This course provides an introduction to the materials and specifications used in chipseals in NZ. It is intended for those who have not previously acquired the knowledge or had formal detailed training in this subject.

It is essential knowledge for those wishing to attend the NZIHT 'Chipseal Design' course and is intended to give a good understanding of the basic properties, NZTA specifications and performance of the component materials – bituminous binders, binder additives and mineral aggregates. Knowledge of the subject matter in this course is essential for those wishing to gain chipseal design skills.

Topics Include

- Bitumen production, NZTA M01 specification
- Bitumen Performance Grade specification developments
- Penetration, viscosity, flash point, durability, DSR testing
- Pumping, mixing and spraying temperatures
- Additives - cutters, fluxes, adhesion agents, antifoam
- Additives - polymers, natural rubber, fibres
- Water stripping, active adhesion, vialit test
- Aggregate precoating, primers (bitumen and emulsion)
- Bitumen emulsions, classification, on-road behaviour
- Sampling hot bitumen and emulsion
- Production of sealing chip
- Source tests for rock for sealing chip
- NZTA M06 specification properties and tests
- ALD chip shape concepts in detail, and sieve analysis/grading
- Sampling aggregates
- Application of chip

On completion of this course participants will

- Understand the basic properties of binders and aggregates for Chipseals

- Understand the requirements of NZTA M01 and M06
- Understand the tests used for road surfacing materials and how to interpret test results
- Understand how the material properties of binders and aggregates effect on-road performance

Who should attend

All those, whether contractor or client, who supervise chipseal construction or who are involved in chipseal design should have the basic knowledge covered by this course.



ADDITIONAL INFORMATION

Minimum numbers apply before a course is confirmed