



# Chipseal Materials



## Domestic Fees

\$495 per person + GST



## Duration

Half Day



[nziht.co.nz](https://nziht.co.nz)



This course provides an introduction to the materials and specifications used in chipseals and asphalt 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.

- Understand the requirements of NZTA M1 and M6
- 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



## Topics Include

- Bitumen production, NZTA M1 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 M6 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