



# Understanding Quality Pavement Construction



## Domestic Fees

\$795 + GST per person



## International Fees

\$795 + GST per person



## Intakes

01/09/2026

08/09/2026



## Campus

Palmerston North  
Christchurch



## Duration

1 day



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



The current trend towards performance based specifications for roading and civil construction projects increases the need for contracting firms to understand the issues involved with pavement construction, especially material compaction.

This course provides an overview of theory and practice to assist team leaders and supervisors/forepersons to manage construction in the field.

## Topics include

- On-site preparation
- Excavation
- Identification of problem areas in subgrade
- Treatment of poor subgrade areas to achieve strength requirements
- Interpretation of material specifications
- Soil properties influencing compaction
- The relationship between maximum dry density (MDD) and optimum water content (OWC)
- Compaction behaviour of cohesive (clay) soils and non-cohesive (granular) materials
- Compaction assessment (in the field)
- Compaction equipment - types and application
- Spreading and placement of aggregate materials
- Grading, trimming, shaping and compaction of final surface
- Surface preparation

## On completion of this course participants will

- Prepare roads up to sealing standard
- Carry out on site preparation
- Excavate and prepare subgrade
- Grade, trim, shape and compact soil and aggregate layers
- Understand the significance of compaction measurement criteria in specifications
- Interpret compaction specifications and criteria

- Achieve consistent compaction when preparing base course surfaces

## Who should attend

Supervisors, plant operators and field staff who are involved in earthwork and pavement construction projects.