

For engineers

Introduction

Whether you're an engineer new to heavy vehicle certification, an HVSC – Engineer (HVSC-E) looking to upskill, or an experienced engineer refreshing or expanding your expertise, the NZTA HVSC engineering training programme is an excellent place to start. Explore the Vocational Pathway to see what your HVSC-E journey could look like.

[HVSC vocational pathway](#)

Watch the video below to learn more. The programme helps to equip engineers with the skills needed to enter the HVSC industry where there is a shortage of certifiers. HVSCs help to keep New Zealand's freight moving– from groceries, to retail, to construction materials.

Heavy vehicle engineer training programme

The programme blends self paced online modules with bookable in person or virtual workshops. Each workshop is run by an experienced member of the industry, so you'll benefit from their expertise, as well as the in-depth module content.

Before you head to the training portal to register, read the information below that explains the three key skill areas currently available.

Fundamental skillsets

This set of modules offers foundational engineering skills that are applicable across a broad spectrum of engineering practices.

They are recommended training for HVSC – Engineer trainees, or for HVSC SRT certifiers who want to add more appointments and must be completed before moving to the HVEA or HVET training programmes. Module F1 is free of charge when you register and should be completed first, then the remaining modules can be done in any order.

Modules covered include:

- Regulation, documentation and quality management systems
- Inspection
- Welding engineering for heavy vehicle specialist certifiers
- Mechanical fasteners
- Fatigue
- Materials
- Design essentials
- General mechanical analysis.

HVEA Load anchorages

This programme includes four modules and is suitable for anyone working towards their HVEA appointment or for existing HVEA certifiers to upskill or refresh their knowledge. You have real-life scenarios to work on and the information in the modules has been collected from experienced engineers across the HVSC industry.

You can complete HVEA1 online at any time, but trainee HVSCs and HVSCs with only SRT appointment must complete all Fundamental Skillset modules before attending the remaining HVEA modules.

The HVEA modules are:

1. Introduction to load restraints and anchorages
2. Standard designs
3. Specialist designs
4. Repairs and modifications

HVET Towing connections

This programme includes six modules and is suitable for anyone working towards their HVET appointment or for existing HVET certifiers to upskill or refresh their knowledge. It provides in-depth training on the key towing connections used across the New Zealand heavy vehicle fleet. You'll work on real-life scenario exercises based on certifier experiences.

You can complete HVET1 online at any time, but trainee HVSCs and HVSCs with only SRT appointment must complete all Fundamental Skillset modules before attending the remaining HVET modules.

The HVET modules are:

1. Introduction to towing connections
2. Towbars
3. Drawbars
4. Drawbeams
5. Fifth wheel structures
6. Kingpin structures

How to register

Visit the HVSC training portal and create your free account.

[HVSC training portal](#)

The HVSC training portal is hosted by our training delivery partner, Engineering New Zealand Te Ao Rangahau.

A calendar is available on the homepage of the training portal so you can see when modules are being offered.

For the best experience we recommend that you access the training portal and the modules on a laptop. Some modules include detailed drawings that may not display well on a mobile phone.

URL: hvsctraining.engineeringnz.org

Vocational pathway

Use the *HVSC vocational pathway* to map out your career as an HVSC certifier.

[HVSC vocational pathway](#)