

Transport Specialties
Corner Kerrs & Ash Roads, Wiri
PO Box 98 971, Manukau 2241, New Zealand
Phone (09) 980 7300 Fax (09) 980 7306
transpecs.co.nz



Course Description

Advanced Brake: System design & commissioning

Version:	BSD/Com2025	Convenor: John Hirst
Location:	Classroom. Transpecs Training Centre, Wiri	Date: T.B.C.
Target Group:	Technicians who have demonstrated sound, basic know (Max. 6 candidates)	vledge of brake system design & operation.

Pre-requisites:

- Personal Protection Equipment (PPE).
- · Competent computer usage skill.
- Successfully completing the Basic Brake & Diagnostic training test paper with a score ≥ 85%.
- Calculator.

Aim:

- To provide an understanding of legislative requirements.
- Demonstrate the fundamentals of trailer braking system design & compliance.
- Successfully complete an End Of Line procedure on a TEBS-E brake control system.
- Advance technical competence in trailer electronic control systems.

Vision:

- Course candidates are guided through the certification process from conception to commissioning.
- Detailed programming & system anylsis promotes better understanding & confidence when dealing with the most advanced braking systems in the NZ marketplace.

Course Content:

Module 1: Theory relating to brake system design (classroom)				
Introduction:	Welcome & housekeeping			
introduction.	Course agenda			
Performance criteria	Legislative requirements			
&	Brake force & brake torque			
System architecture	Foundation brake & brake factors			
	Key components			
System components	Component function			
	Component protection			
Technical data (Trailer)	Review the mass & dimension data from the trailer manufacturer			

Module 2: ECU progra	lodule 2: ECU programming & commissioning (classroom & showroom)				
Onesta a calculation	•	Collating vehicle data (practical)			
Create a calculation, generate a file,	•	Design a brake system file (familiarisation)			
commission trailer	•	Creating an ECU file (familiarisation)			
(EOL):	•	Perform vehicle End Of Line commissioning process (practical)			
(202).	•	Calibrate Electronically Controlled Air Suspension (practical)			

Course Duration: Full Day – 9am – 4.00pm Course Cost: \$650.00 + gst per person (\$225.00 pp deposit - non refundable)

Course Contact:

Email: WabcoTraining@transpecs.co.nz

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