



KASA Redberg

Engineers & Technical Trainers

Wind Loading to AS/NZS 1170.2

Online (e-Learning) Training Course



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Wind Loading to AS/NZS 1170.2

Course Synopsis

MODULE 1 – INTRODUCTION & BACKGROUND

- Brief History and Background
- Wind Forces
- Derivation of Design Wind Pressure
- The Scope of AS/NZS 1170.2
- Exclusions

MODULE 2 - SPEED

- Wind Speed Definitions
- Regional Wind Speed
- Site Wind Speed
- Wind Direction Multiplier
- Terrain/Height Multiplier
- Shielding Multiplier
- Assessing Terrain & Shielding
- Topographic Multiplier

MODULE 3 – DESIGN WIND PRESSURE

- Design Wind Pressures
- The Aerodynamic Shape Factor
- Openings
- Determining C_{fig}

MODULE 4 – VIDEO TUTORIAL

- Worked Example Problem – Freestanding Wall

MODULE 5 – VIDEO TUTORIAL

- Worked Example Problem – Rectangular Building

MODULE 6 – DOMINANT OPENINGS

- Wind Tunnel Simulation – Dominant Openings

MODULE 7 – FREE ROOFS

- Wind Tunnel Simulation – Free Roofs

MODULE 8 – DYNAMIC RESPONSE FACTOR

- Introduction to the Dynamic Response Factor
- Wind Sensitive Structures
- Rigidity and Serviceability
- Factors Affecting Natural Frequency
- Determining the Natural Frequency
- Calculating the Dynamic Response Factor

MODULE 9 – THETA AND WIND DIRECTION

- Theta and Wind Direction

MODULE 10 – FORCES

- AS/NZS 1170.2 Section 2.5
- Force Resultants

MODULE 11 – VIDEO TUTORIAL

- Worked Example Problem – Sewer Vent Stack

MODULE 12 – QUIZ

- End of Course Quiz

