

Learn about Module 3

Last updated: 3 May 2018

This guideline is about liquefaction hazards and their effect, including lateral spreading. It describes sources of liquefaction-induced ground deformation and outlines procedures for assessing ground deformation.



Module 3 guideline

Module 3: Identification, assessment and mitigation of liquefaction hazards (<https://www.building.govt.nz/building-code-compliance/b-stability/b1-structure/geotechnical-guidance-3/>), and other modules, are available in the earthquake geotechnical engineering practice series.

Module 3 educational resources



Video: Identification, assessment and mitigation of liquefaction hazards

An overview of changes and additions to the old 2010 Module 1 on liquefaction hazards.

[Go to the video](#)

<https://www.building.govt.nz/building-code->

[compliance/geotechnical-education/learn-about-module-3/video-module3/](https://www.building.govt.nz/building-code-compliance/geotechnical-education/learn-about-module-3/video-module3/)

If you would like to do a quiz related to this video that can be counted as part of your Continuing Professional Development (CPD) hours, [register on the Engineering New Zealand website](https://www.building.govt.nz/building-code-compliance/geotechnical-education/learn-about-module-3/video-module3/) (<https://learn.engineeringnz.org/course/view.php?id=42>)

Module 3 events

Find out about a one-day technical seminar run by Engineering New Zealand, called [Liquefaction Assessment in the Engineering Practice \(MBIE/NZGS Module 3 Guidelines\)](http://pd.ipenz.org.nz/courses/225-liquefaction-assessment-in-the-engineering-practice-mbie-nzgs-module-3-guidelines) (<http://pd.ipenz.org.nz/courses/225-liquefaction-assessment-in-the-engineering-practice-mbie-nzgs-module-3-guidelines>)

The seminar was developed with the authors of Module 3 and is designed to extend the learning of:

- geotechnical engineers, structural engineers or geologists involved in liquefaction assessment
- people with a sound understanding of simplified liquefaction evaluation procedures
- or engineers developing skills in liquefaction analysis.

Related resources

- [Gregg drilling seminar series](https://www.youtube.com/user/GreggCPTWebinars) (<https://www.youtube.com/user/GreggCPTWebinars>) on YouTube.
- [Repairing and rebuilding houses affected by the Canterbury earthquakes](https://www.building.govt.nz/building-code-compliance/canterbury-rebuild/repairing-and-rebuilding-houses-affected-by-the-canterbury-earthquakes/) (<https://www.building.govt.nz/building-code-compliance/canterbury-rebuild/repairing-and-rebuilding-houses-affected-by-the-canterbury-earthquakes/>) (also known as the Residential guidance).
- [New Zealand Dam Safety Guidelines \(2015\)](https://nzsold.org.nz/2017/08/31/the-new-zealand-dam-safety-guidelines/) (<https://nzsold.org.nz/2017/08/31/the-new-zealand-dam-safety-guidelines/>) on the New Zealand Society on Large Dams website.
- [Bridge Manual](https://www.nzta.govt.nz/resources/bridge-manual/) (<https://www.nzta.govt.nz/resources/bridge-manual/>) on the New Zealand Transport Association website.



**MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HĪKINA WHAKATUTUKI

New Zealand Government

This information is published by the Ministry of Business, Innovation and Employment's Chief Executive. It is a general guide only and, if used, does not relieve any person of the obligation to consider any matter to which the information relates according to the circumstances of the particular case. Expert advice may be required in specific circumstances. Where this information relates to assisting people:

- with compliance with the Building Act, it is published under section 175 of the Building Act
- with a Weathertight Services claim, it is published under section 12 of the Weathertight Homes Resolution Services Act 2006.