

Carry out geotechnical inspection

Overview**What is this standard about?**

This standard states the skills and knowledge required to demonstrate competence in carrying out a geotechnical inspection, that is a visual inspection of the landforms to identify potential problems or inconsistencies that may need to be taken into consideration before or during any subsequent work activities. A geotechnical inspection would not cover the scope or detail of a full geotechnical assessment, which would require the expertise of a qualified geologist. It can be applied in any type of working environment where geotechnical hazards and risks could be encountered.

Who is this standard for?

This standard can apply to anyone, operative, supervision or management, who may be required to carry out an inspection of the working area prior to or during other work activities.

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Performance criteria

You must be able to:

- 1 obtain and interpret information on the geotechnical inspection requirements
- 2 assess the area where the inspection is to be conducted
- 3 plan the inspection
- 4 inform **relevant persons** that a geotechnical inspection is to be conducted
- 5 carry out the geotechnical inspection
- 6 identify aspects or changes that could imply a geotechnical hazard or risk, or could have implications for other work activities
- 7 record and report the results of the geotechnical inspection
- 8 carry out the work in conformance with the **approved policies, procedures and practices**

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Knowledge and understanding

You need to know and understand:

1. the purpose of geotechnical inspection
2. the sources and interpretation of information on geotechnical inspection
3. the regulatory requirements for geotechnical inspection
4. the hazards and risks associated with carrying out a geotechnical inspection
5. the hazards and risks that may be observed when carrying out a geotechnical inspection in the work environment, and the features that indicate those hazards and risks
6. how to conduct a geotechnical inspection
7. the methods of communication with **relevant persons**
8. actions to be taken should it not be possible to carry out the planned inspection
9. actions to be taken should the inspection identify a geotechnical aspect that could be considered a potential significant hazard or risk
10. in geotechnical terms, the differences between rock and soil
11. the indications of a potential geotechnical failure
12. reporting and recording requirements for geotechnical inspection
13. the **approved policies, procedures and practices** for geotechnical inspection in the working area

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Scope/range

- 1. approved policies, procedures and practices:** legislative/regulatory, organisational, operational, accident or emergency, health and safety, first aid, and environmental as appropriate to the work activity
- 2. relevant persons:** supervision, work colleagues, maintenance engineers, designated persons and/or those affected by the work activity, as appropriate to the work activity

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