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**Geotechnical investigation and  
testing — Qualification criteria and  
assessment —**

**Part 2:  
Responsible expert**

*Reconnaissance et essais géotechniques - Critères de qualification et  
évaluation —  
Partie 2: Expert responsable*

ISO/TS 24283-2:2022

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 182, *Geotechnics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 341, *Geotechnical Investigation and Testing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 24283 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The ISO 24283 series specifies the qualification criteria for geotechnical investigation and testing and has three parts:

- Part 1: Qualified technician and qualified operator
- Part 2: Responsible expert
- Part 3: Qualified enterprise

The fulfilment of the technical criteria by the enterprise or the individual can be proven by:

- a) a declaration of conformity by a contractor (first party control);
- b) a declaration of conformity by a client (second party control);
- c) a declaration of conformity by a conformity assessment body (third party control).

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# Geotechnical investigation and testing — Qualification criteria and assessment —

## Part 2: Responsible expert

### 1 Scope

This document specifies the qualification criteria for the person who is responsible for the performance of sampling, testing, measuring, monitoring and installation of equipment (e.g. piezometers, borehole heat exchangers, inclinometers and extensometers) in the framework of geotechnical investigation.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

#### 3.1

##### responsible expert

person who has documented competence and is responsible for the technical management, supervision and reporting of the execution of specified parts of sampling, laboratory and field testing, measuring, monitoring and installation of equipment

### 4 Qualification criteria

The responsible expert should have:

- college or university degree of a relevant subject and proof of relevant work experience of at least three years in an enterprise that performs specified parts of sampling, laboratory and field testing, measuring, monitoring and installation of equipment; or
- a completed vocational training of a relevant subject and proof of relevant work experience of at least five years in an enterprise that performs specified parts of sampling, laboratory and field testing, measuring, monitoring and installation of equipment; or
- proof of relevant work experience of at least ten years in an enterprise that performs specified parts of sampling, laboratory and field testing, measuring, monitoring and installation of equipment.

The responsible expert should have sufficient proven documented competence concerning:

- a) the appropriate laws, health, safety and environmental regulations, technical rules and standards;
- b) the purpose of geotechnical ground investigation, about geological, soil and/or rock mechanical and hydrogeological principles;

- c) appropriate parts of sampling, laboratory and field testing, measuring, monitoring and installation of equipment according to the standards in the Bibliography;
- d) reporting according to the relevant standards;
- e) the identification and description of soil and rock in each sample according to ISO 14688-1 and ISO 14689, if relevant;
- f) the quality management system.

The responsible expert should be able to:

- understand the aim of the investigation programme;
- supervise the work of the qualified technician or operator;
- ensure the completeness and quality of the report according to the relevant standards in the Bibliography, especially divergences influencing the results of the investigation;
- call for additional expertise if required.

## **5 Responsibility**

The responsible expert should supervise the geotechnical investigation and control the correct execution of the geotechnical investigation in accordance with the standards in the Bibliography.

The responsible should check and sign the test report(s) for which the responsible expert is responsible.

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## Bibliography

- [1] ISO 14688-1, *Geotechnical investigation and testing — Identification and classification of soil — Part 1: Identification and description*
- [2] ISO 14689, *Geotechnical investigation and testing — Identification, description and classification of rock*
- [3] ISO 17628, *Geotechnical investigation and testing — Geothermal testing — Determination of thermal conductivity of soil and rock using a borehole heat exchanger*
- [4] ISO 17892 (all parts), *Geotechnical investigation and testing — Laboratory testing of soil*
- [5] ISO 18674 (all parts), *Geotechnical investigation and testing — Geotechnical monitoring by field instrumentation*
- [6] ISO 22282 (all parts), *Geotechnical investigation and testing — Geohydraulic testing*
- [7] ISO 22475 (all parts), *Geotechnical investigation and testing — Sampling methods and groundwater measurements*
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