
Refrigerating systems and heat pumps — Competence of personnel

*Systèmes frigorifiques et pompes à chaleur — Compétence du
personnel*



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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).

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).

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.

This document was prepared by Technical Committee ISO/TC 86, *Refrigeration and air-conditioning*, Subcommittee SC 1, *Safety and environmental requirements for refrigerating systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 182, *Refrigerating systems, safety and environmental requirements*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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.

Introduction

Refrigerating systems, if not properly constructed, installed, operated and maintained, can be of danger to the health and safety of persons and the safety of property, can be detrimental to the environment and can increase energy consumption.

It is therefore essential that personnel dealing with such systems have the competence to carry out the activity, or activities, listed in this document. These activities cover the particular sectors in which they can potentially operate, from original design to final dismantling and disposal. As job descriptions can vary from country to country and from company to company, this document specifies the activities which can be carried out. Job descriptions can specify these activities or a selection of these activities.

This document defines the activities related to the refrigerating circuit.

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1 Scope

This document defines the activities related to refrigerating systems according to ISO 5149-1, ISO 5149-2, ISO 5149-3 and ISO 5149-4 and other equivalent standards, such as EN 378-1, EN 378-2,^[4] EN 378-3,^[5] EN 378-4^[6] and the associated competence profiles. It also establishes the competence criteria for persons who carry out these activities. Activities concerning electricity are excluded.

NOTE 1 As a refrigerating circuit is considered not to incorporate electrical and electronic systems, activities in this area are not part of this document. National regulations or appropriate International or national standards can be referred to for competence on electrical and electronic systems.

NOTE 2 This document does not apply to persons carrying out work on self-contained refrigerating systems as defined in ISO 5149-1 or EN 378-1, from the initial design of the product to the complete manufacture of the product, provided the process is controlled and the methods used are checked by an organization or individual responsible for the conformance with statutory requirements on health, safety and environment (e.g. energy efficiency).

NOTE 3 This document does not constitute a training programme.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 378-1, *Refrigerating systems and heat pumps — Safety and environmental requirements — Part 1: Basic requirements, definitions, classification and selection criteria*

ISO 5149-1, *Refrigerating systems and heat pumps — Safety and environmental requirements — Part 1: Definitions, classification and selection criteria*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5149-1 and EN 378-1 and the following 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

assessment

process that evaluates a person's fulfilment of the competence requirements

[SOURCE: ISO/IEC 17024:2012, 3.8, modified — reference to "certification scheme" replaced by "competence requirements".]