



**International
Standard**

ISO 24359-1

**Building commissioning process
planning —**

**Part 1:
New buildings**

*Planification du processus du commissionnement des
bâtiments —*

Partie 1: Nouveaux bâtiments

**First edition
2026-01**

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 24359-1:2026

<https://standards.iteh.ai/catalog/standards/iso/d35329a4-140e-449d-b032-846ddd42e0a2/iso-24359-1-2026>

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO 24359-1:2026

<https://standards.itih.ai/catalog/standards/iso/d35329a4-140e-449d-b032-846ddd42e0a2/iso-24359-1-2026>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2026

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Developing the commissioning plan	4
4.1 General	4
4.1.1 Overview	4
4.1.2 Initiating the commissioning process	4
4.1.3 Risk assessment to determine the commissioning process to be used	5
4.1.4 Required commissioning plan content	8
4.1.5 Acceptance of the commissioning plan by owner	8
4.2 Pre-design and design phase commissioning plan	9
4.2.1 Commissioning team participation	9
4.2.2 Protocols for communications from and to commissioning provider	9
4.2.3 Format for commissioning review of design, other commissioning documents	9
4.2.4 Commissioning meetings	9
4.2.5 Owner's project requirements	9
4.2.6 Basis of design	10
4.2.7 Commissioning requirements for the design team	10
4.2.8 Commissioning specifications — requirements for the construction team	11
4.2.9 Commissioning reviews of design	11
4.3 Construction phase commissioning plan	12
4.3.1 General	12
4.3.2 Construction phase commissioning meetings	12
4.3.3 Members, participation requirements	12
4.3.4 Protocols for communications from and to commissioning provider in construction phase	12
4.3.5 Issues and resolution log and commissioning progress reports	12
4.3.6 Commissioning review of construction team submittals	12
4.3.7 Developing pre-functional checklists and construction checklists	13
4.3.8 Developing functional performance testing procedures	13
4.3.9 Commissioning during construction	14
4.4 Turnover commissioning plan	16
4.4.1 General	16
4.4.2 Commissioning turnover deliverables	16
4.4.3 Training plan	17
4.4.4 Commissioned systems manual and commissioning report	18
4.5 First year commissioning plan	20
Annex A (informative) Building commissioning process planning flow chart	21
Bibliography	27

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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 205, *Building environment design*.

A list of all parts in the ISO 24359 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.

ISO 24359-1:2026

<https://standards.iteh.ai/catalog/standards/iso/d35329a4-140e-449d-b032-846ddd42e0a2/iso-24359-1-2026>

Introduction

This document applies to the development of the building commissioning plan, which documents the building commissioning (Cx) process for selected systems or assemblies at each phase of the project, from pre-design through occupancy and operation. This document establishes normative requirements for commissioning planning during indoor environment design process in a framework consistent with ISO 16813 and the other commissioning international standards under development for functional performance testing of specific components relating to the indoor environment and the energy use such as the ISO 19455 series and ISO 21105 series. While “commissioning” is used in a range of industries and contexts with different meanings, such as a singular event at the end of an industrial construction project, this document addresses the commissioning process that occurs throughout the design, construction, and first year of new building or major renovation projects.

Building commissioning experience shows that early initiation of commissioning and clear communication of the commissioning process to project team members from the beginning of design are common characteristics of higher value commissioning processes and approaches. Therefore, this document, while intended for use at the design stage of the project, describes requirements for the commissioning process beyond the design stage. This allows the commissioning requirements to be appropriately embedded in the project documents so that, as procurement proceeds, commissioning requirements are clearly conveyed to affected members of the project team, whether owners, designers, contractors, operators, or occupants.

This document can be applied to any type of system or assembly being commissioned in new building and major renovation or system replacement construction projects. The commissioning plan is developed by the commissioning provider for use by project team members and other stakeholders to determine the tasks and activities required to commission the project, including post-occupancy commissioning tasks associated with the project, in accordance with the owner’s project requirements.

Commissioning providers use this document to develop a project-specific commissioning plan, which documents the systems or assemblies to be commissioned, the scope of tasks associated with the process to achieve the owner’s project requirements (OPR), and the work plan to accomplish those tasks. The systems or assemblies to be commissioned and the commissioning requirements for the project are established by the owner with the support of the commissioning provider. This document prescribes the minimum set elements to be in the commissioning plan that can be commonly applied, regardless of which systems or assemblies are being commissioned on a project.

This document establishes the requirements for the rigor and duration of the commissioning process. These requirements range from basic commissioning with an emphasis on construction and turnover, to enhanced commissioning with more substantial activities during design and in the first year of the building’s working life. The framework addresses the full range of commissioned systems and building elements which impact indoor environment. These systems and elements to be commissioned vary widely by project. This document addresses planning activities for a wide range of project types and a variety of systems or assemblies to be commissioned.

This framework considers different project delivery methods including those not addressed by existing national standards. These previous standards were typically developed for older project delivery methods where design was completed prior to the start of construction, and design was performed by a different entity than construction. The same is true of the commissioning processes required by various green building certification schemes in various regions around the world. The global marketplace now utilizes a range of highly variable delivery methods such as tender offer, design-build, and integrated project delivery, to which the building commissioning processes prescribed in this document readily apply.

This document applies to commissioning planning during design for commissioning activities through the first year of occupancy. This planning can be impacted by the owner’s intentions for further subsequent commissioning activities in existing buildings such as on-going commissioning, recommissioning and retro-commissioning, but such lifecycle commissioning activities are not addressed in this document. This document is intended to be followed by ISO 24359-2, which will provide a standard for commissioning planning for existing buildings.