

SS ISO 24161:2025
ISO 24161:2022, IDT
(ICS 13.030.01; 01.040.13)

SINGAPORE STANDARD

**Waste collection and transportation
management – Vocabulary**

SS ISO 24161:2025

ISO 24161:2022, IDT
(ICS 13.030.01; 01.040.13)

SINGAPORE STANDARD

Waste collection and transportation management – Vocabulary

Published by Enterprise Singapore

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from Enterprise Singapore. Request for permission can be sent to: standards@enterprisesg.gov.sg.

© ISO 2022
© Enterprise Singapore 2025

ISBN 978-981-5277-99-9

National Foreword

This Singapore Standard was prepared by the Working Group on Waste Collection and Transportation Management set up by the Technical Committee on Circularity of Materials under the purview of the Environment and Resources Standards Committee.

This standard is an identical adoption of ISO 24161:2022, “Waste collection and transportation management – Vocabulary”, published by the International Organization for Standardization.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as “mature standards”. Mature standards will not be subject to further review, unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

INTERNATIONAL STANDARD

ISO
24161

First edition
2022-10

Waste collection and transportation management — Vocabulary

Gestion de la collecte et du transport des déchets — Terminologie



Reference number
ISO 24161:2022(E)

© ISO 2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

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

3.1 Waste management.....

1

3.1.1 Waste management and policy.....

1

3.1.2 Waste category.....

2

3.1.3 Waste management facility and process.....

6

3.2 Collection and transportation.....

8

3.2.1 Personnel.....

8

3.2.2 Vehicles and associate equipment.....

9

3.2.3 Storage and collection.....

10

Bibliography.....

13

Index.....

14

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 297, *Waste collection and transportation management*.

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

0.1 General

With global waste generation on the rise, municipalities must consider more efficient waste collection and transportation management, including the interoperability and safe use of equipment or technologies.

Hence, it is important to agree on a set of harmonized terms and definitions to provide a common basis for communication and information exchange on waste collection and transportation management. This will help to minimize ambiguity, confusion and misunderstanding of terms used in the waste management industry.

This document enables users to understand the scope of the work of ISO/TC 297 and is the source document for the terms and definitions of ISO/TC 297. Where a term and definition are required in a single document, the term and definition will be referenced in that document.

These terms and definitions will serve as the basis for a common language for regulations, standards, academia, research and training in the waste management industry.

0.2 Vocabulary structure

The arrangement of terms and definitions in this document is based upon terms corresponding to “waste management” and “collection and transportation” in the waste collection and transportation management field. The organization of terms is illustrated in [Figure 1](#).

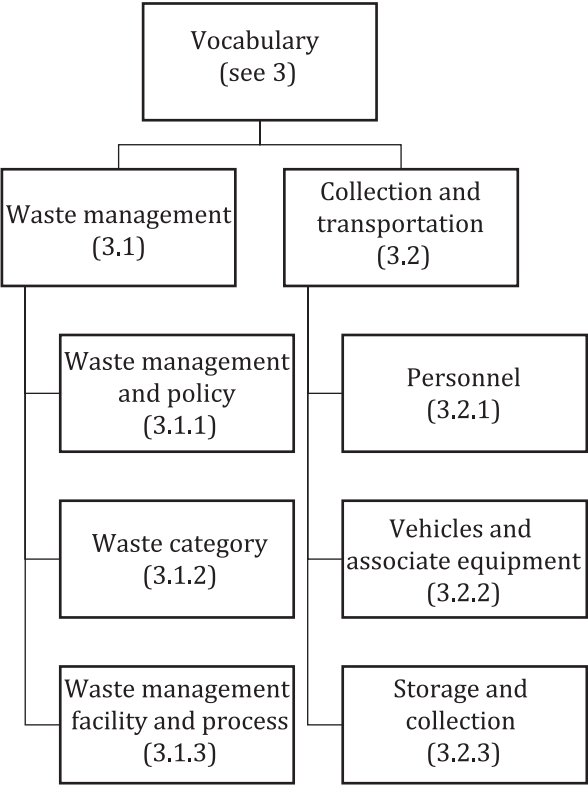


Figure 1 — Vocabulary structure

Waste collection and transportation management — Vocabulary

1 Scope

This document defines terms that are commonly used in the area of waste collection and transportation management. It aims to align with terminology used internationally.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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/>

NOTE 'Refuse' and 'waste' are used interchangeably in this document.

3.1 Waste management

3.1.1 Waste management and policy

3.1.1.1

3Rs

reduce, reuse, recycle

three main principles which are widely used in *waste management* ([3.1.1.9](#))

Note 1 to entry: *Reduce*, *reuse* and *recycling* are defined in [3.1.1.6](#), [3.1.1.8](#) and [3.1.3.10](#), respectively.

3.1.1.2

extended producer responsibility

EPR

environmental policy approach in which a producer's responsibility for a product is extended to the post-consumer stage of a product's life cycle

Note 1 to entry: An EPR policy is characterized by:

- a) the shifting of responsibility (physically and/or economically; fully or partially) upstream towards the producer and away from government or municipalities;
- b) the provision of incentives to producers to take into account environmental considerations when designing their products.

Note 2 to entry: An EPR can be only financial or can be financial and operational depending on national laws.

3.1.1.3

illegal dumping

disposal ([3.1.3.3](#)) of *waste* ([3.1.2.31](#)) without legal permission, in violation of national laws