



MALAYSIAN STANDARD

**MS ISO 14040:2008
(CONFIRMED:2013)**

Environmental management - Life cycle assessment - Principles and framework (First revision) (ISO 14040, 2006, IDT)

ISO 14040:2006 is endorsed as Malaysian Standard with the reference number MS ISO 14040:2008.

ICS: 13.020.10; 13.020.60

Descriptors: environmental management, life cycle assessment, principles, framework

NOTE. This MS has been reviewed by the responsible committee and confirmed that its contents are current

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Committee representation

The Environmental Management Industry Standards Committee (ISC Z) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Association of Environmental Consultants and Contractors of Malaysia
Balai Ikhtisas Malaysia
Business Council for Sustainable Development Malaysia
Centre for Environment Technology and Development Malaysia
Department of Chemistry Malaysia
Department of Environment Malaysia
Department of Standards Malaysia
Environmental Management and Research Association of Malaysia
Federation of Malaysian Manufacturers
Malaysian Institute of Chemistry
Malaysian International Chamber of Commerce and Industry
Malaysian Palm Oil Association
Malaysian Palm Oil Board
Malaysian Palm Oil Council
Malaysian Plastics Manufacturers Association
Malaysian Rubber Board
Malaysian Rubber Glove Manufacturers' Association
Malaysian Textile Manufacturers Association
Ministry of Domestic Trade and Consumer Affairs
Ministry of International Trade and Industry
Ministry of Natural Resources and Environment
Ministry of Plantation Industries and Commodities
Ministry of Science, Technology and Innovation
SIRIM Berhad
The Electrical and Electronics Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Putra Malaysia

The Technical Committee on Life Cycle Assessment which recommends the adoption of the ISO Standard consists of representatives from the following organisations:

Business Council for Sustainable Development Malaysia
Centre for Environment, Technology and Development Malaysia
Malaysian Palm Oil Association
Malaysian Palm Oil Board
Malaysian Rubber Board
SIRIM Berhad (Bioprocess Technology and Environmental Centre)
Universiti Malaya
Universiti Putra Malaysia

MS ISO 14040:2008

NATIONAL FOREWORD

The adoption of the ISO Standard as a Malaysian Standard was recommended by the Technical Committee on Life Cycle Assessment under the authority of the Environmental Management Industry Standards Committee.

This Malaysian Standard is identical with ISO 14040:2006, *Environmental management - Life cycle assessment - Principles and framework*, published by the International Organization for Standardization (ISO). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, “this International Standard” should read “this Malaysian Standard”;
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) reference to International Standards should be replaced by equivalent Malaysian Standards as follows:

<u>Referenced International Standard</u>	<u>Corresponding Malaysian Standard</u>
ISO 14044, <i>Environmental management - Life cycle assessment - Requirements and guidelines</i>	MS ISO 14044, <i>Environmental management - Life cycle assessment - Requirements and guidelines</i>

This standard is the first revision of MS ISO 14040:1998, *Environmental management - Life cycle assessment - Principles and framework*.

This standard cancels and replaces MS ISO 14040:1998, *Environmental management - Life cycle assessment - Principles and framework*.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

**Environmental management — Life cycle
assessment — Principles and framework**

*Management environnemental — Analyse du cycle de vie — Principes
et cadre*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 14040 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 5, *Life cycle assessment*.

This second edition of ISO 14040, together with ISO 14044:2006, cancels and replaces ISO 14040:1997, ISO 14041:1998, ISO 14042:2000 and ISO 14043:2000, which have been technically revised.