



UL 60745-2-17:2011 (R2025)

(IEC 60745-2-17:2010, MOD)

STANDARD FOR SAFETY

Hand-Held Motor-Operated Electric
Tools – Safety – Part 2-17: Particular
Requirements for Routers and
Trimmers

UL Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-17: Particular Requirements for Routers and Trimmers, UL 60745-2-17

Third Edition, Dated February 25, 2011

Summary of Topics

This reaffirmation of ANSI/UL 60745-2-17 dated June 11, 2025 is being issued to update the title page to reflect the most recent designation as a Reaffirmed American National Standard (ANS). No technical changes have been made.

UL 60745-2-17 is an adoption of IEC 60745-2-17, Third Edition, issued by the IEC 2014. Please note that the National Difference document incorporates all of the U.S. national differences for UL 60745-2-17.

As noted in the Commitment for Amendments statement located on the back side of the title page, ULSE and CSA are committed to updating this harmonized standard jointly. However, the revision pages dated June 11, 2025 will not be jointly issued by ULSE and CSA as these revision pages only address UL ANSI approval dates.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The requirements are substantially in accordance with Proposal(s) on this subject dated April 18, 2025.

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This standard is issued jointly by the Canadian Standards Association (operating as "CSA Group") and ULSE Inc. (ULSE). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or ULSE at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and ULSE. CSA Group and ULSE will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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Preface

This is the harmonized CSA and ULSE standard for Hand-Held Motor-Operated Electric Tools – Safety – Part 2-17: Particular Requirements for Routers and Trimmers. It is the third edition of CAN/CSA-C22.2 No. 60745-2-17 and the third edition of UL 60745-2-17. This edition of CAN/CSA-C22.2 No. 60745-2-17 supersedes the previous edition published in 2004. This standard is based on IEC 60745-2-17, third edition.

This harmonized standard was prepared by the Canadian Standards Association (CSA) and ULSE.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This standard was reviewed by the CSA Subcommittee on Safety of Hand-Held Motor-Operated Electric Tools, under the jurisdiction of the CSA Technical Committee on Consumer and Commercial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee. This standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This standard adopts the IEC text with national differences.

This standard is published as an equivalent standard for CSA and ULSE.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

All national differences from the IEC text are included in the CSA and ULSE versions of the standard. While the technical content is the same in each organization's version, the format and presentation may differ.

Reasons for differences from IEC

Differences from the IEC are being added in order to address regulatory situations present in the U.S. and Canada.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules

of the standards development organization. If more than one literal interpretation has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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There are five types of National Differences as noted below. The difference type is noted on the first line of the National Difference in the standard. The standard may not include all types of these National Differences.

In the CSA and UL publications of this standard, National Differences from the text of International Electrotechnical Commission (IEC) Publication 60745-2-17, Safety Requirements for Hand-Held Motor-Operated Electrical Tools – Safety – Part-2-17: Particular Requirements for Routers and Trimmers, copyright 2010 are indicated by notations (differences) and are presented in bold text. The national difference type is included in the body.

DR – These are National Differences based on the **national regulatory requirements**.

D1 – These are National Differences which are based on **basic safety principles and requirements**, elimination of which would compromise safety for consumers and users of products.

D2 – These are National Differences from IEC requirements based on existing **safety practices**. These requirements reflect national safety practices, where empirical substantiation (for the IEC or national requirement) is not available or the text has not been included in the IEC standard.

DC – These are National Differences based on the **component standards** and will not be deleted until a particular component standard is harmonized with the IEC component standard.

DE – These are National Differences based on **editorial comments or corrections**.

Each national difference contains a description of what the national difference entails. Typically one of the following words is used to explain how the text of the national difference is to be applied to the base IEC text:

Addition / Add - An addition entails adding a complete new numbered clause, subclause, table, figure, or annex. Addition is not meant to include adding select words to the base IEC text.

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Deletion / Delete - A deletion entails complete deletion of an entire numbered clause, subclause, table, figure, or annex without any replacement text.

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FOREWORD

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY – PART 2-17: PARTICULAR REQUIREMENTS FOR ROUTERS AND TRIMMERS

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International Standard IEC 60745-2-17 has been prepared by IEC technical committee 116: Safety of hand-held motor-operated electric tools.

This third edition cancels and replaces the second edition published in 2003, of which it constitutes a technical revision. Main changes include: Clause [8](#): Marking and instructions, addition of some router specific safety warnings, clarifications in Annex [K](#), the addition of Annex [M](#): Safety of working stands for operation with hand-held motor-operated electric tools and editorial modifications to match with the fourth edition of IEC 60745-1.

The text of this standard is based on the following documents:

FDIS	Report on voting
116/38/FDIS	116/47/RVD



Documents

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Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives.

This Part 2-17 is to be used in conjunction with the fourth edition (2006) of IEC 60745-1: Safety of hand-held motor-operated electric tools – Part 1: General requirements. It was established on the basis of the fourth edition of that standard.

When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly:

NOTE 1 In this standard, the following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in smaller roman type.

Subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

A list of all parts of the IEC 60745 series, under the general title: Hand-held motor-operated electric tools – Safety, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition; or
- amended.

HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –

PART 2-17: PARTICULAR REQUIREMENTS FOR ROUTERS AND TRIMMERS

1 Scope

This clause of Part 1 is applicable, except as follows:

Addition:

This standard applies to routers and trimmers.

2 Normative references

This clause of Part 1 is applicable.

3 Terms and definitions

This clause of Part 1 is applicable, except as follows:

Additional definitions:

3.101 router: tool designed to be fitted with rotary cutter and with a base that allows control of cutting slots into or shaping the edge of various materials

3.102 trimmer: tool designed to be fitted with rotary cutter and a base that allows for control of trimming the edge of laminate sheet or similar materials

4 General requirements

This clause of part 1 is applicable.

5 General conditions for the tests

This clause of Part 1 is applicable.

6 Void

7 Classification

This clause of part 1 is applicable.

8 Marking and instructions

This clause of Part 1 is applicable, except as follows:

8.1 *Addition:*

– rated no-load speed in revolutions per minute.