

Australian/New Zealand Standard™

**Hand-held motor-operated electric  
tools—Safety**

**Part 2.17: Particular requirements for  
routers and trimmers**



## **AS/NZS 60745.2.17:2011**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 4 April 2011 and on behalf of the Council of Standards New Zealand on 21 April 2011.

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*This Standard was issued in draft form for comment as DR 10916.*

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# Australian/New Zealand Standard™

## Hand-held motor-operated electric tools—Safety

### Part 2.17: Particular requirements for routers and trimmers

Originated as AS/NZS 60745.2.17:2003.  
Jointly revised and redesignated as AS/NZS 60745.2.17:2011.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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**AS/NZS 60745.2.17:2011****Hand-held motor-operated electric tools – Safety –****Part 2.17: Particular requirements for routers and trimmers****Foreword**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002 - Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60745.2.17:2003 and its amendments three years from the date of its publication. During this period it is anticipated that regulatory authorities will approve routers and trimmers to either standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements for the design, manufacture and testing of routers and trimmers which can form the basis for approval by regulatory authorities.

The text IEC 60745-2-17 Ed 3, prepared by IEC Technical Committee 116, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

This Standard is an adoption with national modifications of the third edition of IEC 60745-2-17, *Hand-held motor-operated electric tools – Safety – Part 2-17: Particular requirements for routers and trimmers*. It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60745.1 *Hand-held motor-operated electric tools – Safety – Part 1: General requirements* and its amendments. It was established on the basis of the 2009 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60745.1 so as to convert it into the Australian/New Zealand Standard: *Safety requirements for routers and trimmers*.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letters AZ.

NOTE 2 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;

– notes: in small roman type.

Words in **bold** in the text are defined in Clause 3.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820<sup>1</sup> that could be applicable to requirements for routers and trimmers are covered by this standard.

The national variations to the IEC 60745-2-17 Ed 3 form the New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

There are no national variations from the IEC Standard from which this standard is adopted, other than those listed in Annex ZZ to AS/NZS 60745.1.

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<sup>1</sup> AS/NZS 3820 *Essential safety requirements for electrical equipment*

The text of the International Standard IEC 60745-2-17 Ed 3 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

#### **AUSTRALIAN NATIONAL VARIATIONS**

There are no national variations to this Part 2 other than those listed in Annex ZZ to AS/NZS 60745.1.

#### **NEW ZEALAND NATIONAL VARIATIONS**

There are no national variations to this Part 2 other than those listed in Annex ZZ to AS/NZS 60745.1.

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## **HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS – SAFETY –**

### **Part 2-17: Particular requirements for routers and trimmers**

#### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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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

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 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.

**8.12.1.1** *Addition:*

– **Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.**