

INTERNATIONAL STANDARD

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Analysis techniques for system reliability – Procedure for failure mode and effects analysis (FMEA)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ANALYSIS TECHNIQUES FOR SYSTEM RELIABILITY —
PROCEDURE FOR FAILURE MODE AND EFFECTS ANALYSIS (FMEA)**

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
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PREFACE

This standard has been prepared by IEC Technical Committee No. 56: Reliability and Maintainability.

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

Six Months' Rule	Report on Voting
56(CO)85	56(CO)97

Further information can be found in the Report on Voting indicated in the table above.

The following IEC publication is quoted in this standard:

Publication No. 271 (1974). List of Basic Terms, Definitions and Related Mathematics for Reliability.

ANALYSIS TECHNIQUES FOR SYSTEM RELIABILITY — PROCEDURE FOR FAILURE MODE AND EFFECTS ANALYSIS (FMEA)

1. Scope

This standard describes Failure Mode and Effects Analysis (FMEA) and Failure Mode, Effects and Criticality Analysis (FMECA), and gives guidance as to how they may be applied to achieve various objectives, as follows:

- by providing the procedural steps necessary to perform an analysis;
- by identifying appropriate terms, assumptions, criticality measures, failure modes;
- by determining basic principles;
- by providing examples of the necessary forms.

All the general qualitative considerations presented for FMEA will apply to FMEAC, since one is an extension of the other.

Withdrawn