

Indian Standard

FAILURE MODE EFFECTS ANALYSIS

1 SCOPE

1.1 This standard describes potential Failure Mode and Effects Analysis (FMEA) and provides generic guidelines in the application of the technique. There are four basic types of FMEA, namely:

- a) Design FMEA,
- b) Process FMEA,
- c) Programme/Project FMEA, and
- d) Machinery FMEA.

1.2 Process FMEA is of two types:

- a) Manufacturing FMEA, and
- b) Assembly FMEA.

The Machinery and Programme FMEA are not covered by this standard. FMEA includes all requirements of FMECA as well. The typical Design FMEA and Process FMEA Quality objectives are listed in Annex A and Annex B.

2 REFERENCES

The following standards contain provisions, which through reference in this text constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
11137 (Part 2 : 1984	Analysis technique for system reliability: Part 2 Procedures for failure mode and effects analysis(FMEA) and failure mode effects
10645 : 2003	Methods of estimation of process capability and process performance
15280 : 2002	Quality function deployment