

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Live working – Conformity assessment applicable to tools, devices and equipment

Travaux sous tension – Evaluation de la conformité applicable à l'outillage, au matériel et aux dispositifs



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CONFORMITY ASSESSMENT APPLICABLE
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International Standard IEC 61318 has been prepared by IEC technical committee 78: Live working.

This third edition cancels and replaces the first edition which was issued as a technical report in 1994 with its Corrigendum 1 (2000), and the second edition, withdrawn, which was issued as a standard in 2003. It includes the following significant technical changes from the previous edition:

- change of the purpose of the document from a support to standard writers to a standard for assessing the conformity by testing of products having completed the production phase;
- clarification of the definitions of critical, major and minor defects;
- specification of ISO 2859 for the manufacturers to define the appropriate sampling plans;
- review of the acceptance quality limit (AQL) to specify lower limits.

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

FDIS	Report on voting
78/705/FDIS	78/713/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, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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- withdrawn,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
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INTRODUCTION

This publication provides elements for product conformity assessment.

This standard is specified in each IEC product standard for live working for the purpose of assessing that products having completed the production phase meet the requirements of the relevant product standard.

It can be used as a basis for production certification.

TC 78 prepares product standards which include requirements and normative tests for design input (type tests).

Product conformity assessment elements related to the production phase (among them is the procedure to associate routine and sampling tests to the classification of defects) are included in the present standard.

This publication does not cover conformity of commercial shipments. Shipments can contain products coming from several production batches. Batches are here understood as related to production.

This publication is not a quality management systems standard.

LIVE WORKING – CONFORMITY ASSESSMENT APPLICABLE TO TOOLS, DEVICES AND EQUIPMENT

1 Scope

This International Standard provides elements for product conformity assessment. Critical defects on tools, devices and equipment for live working are not acceptable. Major defects on tools, devices and equipment for live working are likely to result in failure or in a significant reduction of functionality, while minor defects do not reduce significantly the functionality.

This standard defines assessment methods for products having completed production phase to assure that they conform to the requirements of the corresponding product standard. It is to be used in conjunction with live working corresponding product standards.

The following elements are not covered by the present document, but are included in each product standard:

- type tests;
- provisions and description for sampling and routine tests;
- the identification and classification of the corresponding defects resulting from a risk analysis.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2859 (all parts), *Sampling procedures for inspection by attributes*

3 Terms and definitions

For the purposes of the present document, the following terms and definitions apply.

NOTE Some of the terms and definitions below have been modified in order to apply more exactly to live working product standards.

3.1

acceptance quality limit

AQL

maximum per cent defective (or the maximum number of defects per 100 items) for purposes of sampling inspections, that can be considered satisfactory as a process average

[ISO 2859-1, Definition 3.1.26, modified]

3.2

acceptance test

contractual test to prove to the customer that the item(s) meet(s) certain conditions of its specification

[IEV 151-16-23, modified]