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Australian Standard<sup>®</sup>

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**Software reviews and audits**

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## PREFACE

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<i>Reference to ANSI/IEEE Standard</i>	<i>Australian Standard</i>
729 IEEE Standard Glossary of Software Engineering Terminology	—
829 IEEE Standard for Software Test Documentation	4006 Software Test Documentation

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## 1. Scope and References

**1.1 Scope.** The purpose of this standard is to provide definitions and uniform requirements for review and audit processes. It does not establish the need to conduct specific reviews or audits; that need is defined by local policy. Where specific reviews and audits are required, standard procedures for their execution must be defined.

This standard provides such definition for review and audit processes that are applicable to products and processes throughout the software life cycle. Each organization shall specify where and when this standard applies and any intended deviations from this standard.

**1.2 References.** This standard shall be used in conjunction with the following publications:

[1] ANSI/IEEE Std 729-1983, IEEE Standard Glossary of Software Engineering Terminology.

[2] ANSI/IEEE Std 829-1983, IEEE Standard for Software Test Documentation.

## 2. Definitions

**audit.** An independent evaluation of software products or processes to ascertain compliance to standards, guidelines, specifications, and procedures based on objective criteria that include documents that specify

- (1) The form or content of the products to be produced.
- (2) The process by which the products shall be produced.
- (3) How compliance to standards or guidelines shall be measured.

**review.** An evaluation of software element(s) or project status to ascertain discrepancies from planned results and to recommend improvement. This evaluation follows a formal process (for example management review process, technical review process, software inspection process, or walk-through process).

**software element.** A deliverable or in-process document produced or acquired during software development or maintenance. Specific examples include but are not limited to

- (1) Project planning documents (for example, software development plans, and software verification and validation plans).
- (2) Software requirements and design specifications.
- (3) Test effort documentation (ie, as described in ANSI/IEEE Std 829-1983 [2])<sup>1</sup>.
- (4) Customer-deliverable documentation.
- (5) Program source code.
- (6) Representation of software solutions implemented in firmware.
- (7) Reports (for example, review, audit, project status) and data (for example, defect detection, test).

For other definitions, including verification and validation, see ANSI/IEEE Std 729-1983 [1].

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<sup>1</sup> The numbers in brackets correspond to those of the references in 1.2.