

	SURFACE VEHICLE/ AEROSPACE STANDARD	
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Maintainability Program Standard		

RATIONALE

This Maintainability Program Standard was updated to correct inconsistencies between this document and the Maintainability Program Standard Implementation Guide (JA 1010-1). The changes included updating technical terms, definitions and editing certain sections. Additions, deletions and corrections deemed necessary by the Maintainability Committee members were incorporated in this revision.

FOREWORD

In March 1997, the SAE G-11 Reliability, Maintainability, Supportability, and Logistics (RMSL) Division standards section chartered a subcommittee to create a maintainability program standard. The subcommittee was formed from a representative cross-section of commercial industries and military (DOD and Government). In response to that charter, this standard has been developed.

The subcommittee has endeavored to develop a standard that would reflect current commercial and military practices and meet the objectives of the United States Department of Defense Acquisition reform initiative. This performance-based standard was developed in recognition of today's intense and competitive market demands for world class maintainability, low cost, and speed to market.

This standard relies heavily upon the supplier-customer dialogue, and it intentionally allows suppliers great freedom to uniquely tailor maintainability programs. However, it was recognized that, in addition to the requirements of this standard, guidance for developing maintainability programs is frequently required. Consequently, the subcommittee has also been chartered to produce a Maintainability Program Standard Implementation Guide, which sets forth current, world class proven maintainability best practices and provides activities and processes that may be used to satisfy the requirements of this standard. In addition, the Standard and Implementation Guide are intended to become part of a set of comprehensive RMSL program and task standards planned by the G-11 Division to replace selected Military Standards and Specifications.

The professionals in the subcommittee gratefully acknowledge the support from their companies and from the many individuals and organizations, who made contributions and provided recommendations to the subcommittee.

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1. SCOPE

1.1 Purpose

This SAE Standard establishes the requirement for suppliers to plan a maintainability program that satisfies the following three requirements:

The supplier shall ascertain customer requirements.

The supplier shall meet customer requirements.

The supplier shall assure that customer requirements have been met.

1.2 Applicability

This document applies to activities related to the specification, design, development, and assurance of any system (hardware and/or software) product or processes.

1.3 Tailoring

This document does not specify the activities, tasks or methods to be included in the program. Rather, the content of each program must be tailored to satisfy customer requirements using the most appropriate means.

2. REFERENCES

2.1 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE JA1010-1 Maintainability Program Standard Implementation Guide

2.1.2 Military Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

MIL-HDBK-470A Designing and Developing Maintainability Products and Systems (Volumes I and II)

3. DEFINITIONS

3.1 ACTIVITY

A defined action that uses one or more methods to satisfy a maintainability program requirement.

3.2 CUSTOMER

The recipient of a product (e.g., the customer may be the purchaser, beneficiary, ultimate consumer or user.)

3.3 LIFE CYCLE

A series of stages a product or process passes through during its lifetime, from concept through decommission.