

AEROSPACE RECOMMENDED **PRACTICE**

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A Guideline for Aerospace Platform Fiber Optic Training and Awareness Education Introduction to Aerospace Fiber Optics Technician, Quality Assurance Inspector, or Engineer Hands-on Competencies

RATIONALE

The Aerospace industry has always required the highest standards of workmanship to be maintained. To ensure that the Aerospace fiber optics industry adopts these same high standards, it's essential that minimum training and certification requirements be established. This document outlines the minimum training requirements for all personnel working as aerospace fiber optics technicians, quality assurance inspectors, or engineers in accordance with aerospace industry best practices.

1. SCOPE

This document establishes training guidelines applicable to fiber optic technician, quality assurance, or engineer technical training for individuals involved in the manufacturing, installation, support, integration and testing of fiber optic systems. Applicable personnel include:

Managers

Engineers

Technicians

Trainers/Instructors

Third Party Maintenance Agencies

Quality Assurance

Production

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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2.1 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.

ARP5061 Guidelines for Testing and Support of Aerospace, Fiber Optic, Inter-Connect Systems

2.2 ANSI Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ANSI Z136.1-2007 American National Standard for Safe Use of Lasers

ANSI Z136.2-1997 American National Standard for the Safe Use of Optical Fiber Communication Systems Utilizing

Laser Diode and LED Sources

ANSI/TIA-440-B-2004 Fiber Optic Terminology

2.3 IEC Publications

Available from International Electrotechnical Commission, 3, rue de Varembe, P.O. Box 131, 1211 Geneva 20, Switzerland, Tel: +44-22-919-02-11, www.iec.ch.

IEC 60825-1 Laser Safety Equipment Classification (Safety of laser products)

IEC 60825-2 Safety of Optical Fibre Communication Systems

IEC 60825-4 Laser Guards

2.4 NASA Publications

Available from NASA, Documentation, Marshall Space Flight Center, AL 35812, www.nas.nasa.gov.

NASA-STD-8739.5 Fiber Optic Terminations, Cable Assemblies, and Installation

2.5 NAVAIR Publications

Commanding Officer, Naval Air technical Data and Engineering Service Command, Naval Air Station, North Island, P.O. Box 357031, Building 90, Distribution, San Diego, CA 92135-7031.

NAVAIR 01-1A-505.4 Installation and Testing Practices Aircraft Fiber Optic Cabling