

Technical Publications and Authoring S1000D/ MIL-Specs Technical Manuals Training Material Development

9 – 13 August 2027
Lyon (France)

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Ref: 3255952_356910 Date: 9 – 13 August 2027 Location: Lyon (France) Fees: 5900 GBP

Course Introduction

Technical publications play a critical role in ensuring that complex equipment, systems, and operational procedures can be understood, maintained, repaired, and used safely throughout their service life. In sectors such as aerospace, defense, transportation, engineering, energy, and advanced manufacturing, technical manuals are not simply supporting documents. They are controlled information products that directly influence operational readiness, maintenance accuracy, regulatory compliance, personnel safety, and lifecycle support.

Developing reliable technical documentation requires more than strong writing skills. Authors must be able to interpret engineering information, understand equipment configurations, organize complex procedures, control terminology, and present technical content in a consistent format. They must also coordinate with engineers, subject-matter experts, illustrators, maintenance teams, quality personnel, and customers to ensure that every instruction is accurate, complete, usable, and aligned with contractual requirements.

Organizations often face significant challenges when technical information is produced through disconnected documents, inconsistent templates, or outdated authoring practices. These challenges may result in duplicated content, conflicting instructions, poor revision control, inefficient updates, and difficulty reusing information across manuals and training materials. In safety-critical environments, unclear or inaccurate documentation can contribute to maintenance errors, equipment damage, operational delays, and increased support costs.

The S1000D specification provides a structured approach to creating, managing, exchanging, and publishing technical information through modular data units. It supports content reuse, controlled applicability, configuration management, and delivery across multiple formats. Military specifications and standards, commonly referred to as MIL-Specs, provide additional requirements for the preparation, structure, quality, and validation of technical manuals used in defense and government programs.

This course develops the practical capabilities required to plan, author, review, and manage technical publications based on S1000D principles and applicable military technical documentation requirements. Participants learn how to create data modules, apply business rules, develop procedural and descriptive content, manage illustrations and references, control applicability, and support publishing through a Common Source Database.

The program also addresses the development of technical training materials derived from approved engineering data and operational documentation. Participants explore how to transform complex source information into structured learning content, instructor guides, participant manuals, practical exercises, assessments, and job aids. This ensures consistency between equipment documentation, maintenance procedures, and workforce training.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with other pieces like a silver pawn and a gold pawn visible. The board is checkered, and the background is a soft, out-of-focus landscape.

By connecting technical authoring, information management, quality assurance, and instructional material development, the course helps organizations improve document accuracy, shorten revision cycles, strengthen knowledge transfer, and reduce lifecycle support costs. It is relevant to technical authors, engineers, documentation managers, trainers, project teams, maintenance specialists, configuration personnel, quality professionals, and government or private-sector employees responsible for technical information.

Course Objectives

By the end of this course, participants will be able to:

- Explain the role of technical publications in equipment lifecycle support.
- Distinguish between conventional manuals and structured technical information.
- Understand the purpose and core principles of the S1000D specification.
- Interpret technical publication requirements contained in military specifications.
- Plan technical documentation projects according to operational and contractual needs.
- Identify appropriate information types and data module structures.
- Develop clear descriptive, procedural, maintenance, and fault-isolation content.
- Apply controlled language and consistent technical terminology.
- Create data module codes and information control structures.
- Use business rules to govern authoring, review, and publication activities.
- Manage applicability, configuration, references, warnings, cautions, and notes.
- Coordinate technical text, illustrations, multimedia, and source data.
- Apply quality assurance and technical validation processes.
- Manage revisions, change records, and document approval workflows.
- Convert approved technical content into effective training materials.
- Develop an implementation roadmap for structured technical publishing.

Course Modules

Day 1: Technical Publications Fundamentals and Requirements

- Purpose of technical publications.
- Technical information throughout the system lifecycle.
- Categories of technical manuals.
- Operational and maintenance documentation.
- Technical author roles and responsibilities.
- Source data and engineering information.
- Customer and contractual documentation requirements.
- Introduction to military specifications and standards.
- Documentation planning and project scoping.
- Content users and operational use cases.
- Document accuracy and safety considerations.
- Technical publication governance.

The graphic features the text 'UK Training' in a small, sans-serif font above the word 'PARTNER' in a large, bold, black, sans-serif font. The background consists of concentric white circles on a grey and white checkered floor, with three chess pieces (a king, a pawn, and a knight) in the foreground.

Day 2: S1000D Structure and Information Architecture

- Purpose and framework of S1000D.
- Structured and modular technical information.
- Data module concepts and information types.
- Data module code structure.
- Standard numbering systems.
- Information control numbers.
- Publication modules and content assembly.
- Common Source Database principles.
- Business rules and business rule decisions.
- Applicability and configuration management.
- Metadata and information status.
- Content reuse and single-source publishing.

Day 3: Technical Authoring and Content Development

- Descriptive information development.
- Procedural information development.
- Maintenance task authoring.
- Fault reporting and isolation content.
- Crew and operator information.
- Parts and support information.
- Writing clear technical instructions.
- Controlled language principles.
- Terminology and abbreviation management.
- Warnings, cautions, and notes.
- Tables, lists, references, and cross-references.
- Technical illustration requirements.

Day 4: Quality, Validation, and Publication Management

- Technical review and editorial review.
- Source data verification.
- Procedural validation and verification.
- Quality assurance requirements.
- Document consistency and completeness checks.
- Data module status and approval.
- Revision and change management.
- Configuration-controlled publishing.
- Illustration and multimedia coordination.
- Legacy document conversion.
- Electronic technical publication delivery.
- Publication performance measurement.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The background shows concentric circles emanating from behind the king piece.

Day 5: Training Material Development and Practical Application

- Relationship between manuals and training materials.
- Training needs and audience analysis.
- Learning objective development.
- Structuring technical training content.
- Instructor guide preparation.
- Participant manual development.
- Practical exercise design.
- Technical assessment development.
- Job aids and quick-reference materials.
- S1000D data module authoring exercise.
- Technical content quality review.
- Structured publishing implementation roadmap.

Why Should You Attend This Course?

- Develop technical manuals that are clear, accurate, and operationally usable.
- Understand how S1000D supports modular and reusable technical information.
- Improve compliance with military documentation requirements.
- Reduce duplication and inconsistency across technical publications.
- Strengthen coordination between authors, engineers, trainers, and maintenance teams.
- Improve revision control and technical content traceability.
- Apply controlled language to reduce ambiguity and user error.
- Produce structured training materials from approved technical information.
- Improve the quality of maintenance and operational instructions.
- Support digital publishing and Common Source Database implementation.
- Reduce technical documentation lifecycle costs.
- Build a practical roadmap for modernizing publication processes.

Course Conclusion

Effective technical publications are essential to the safe operation, maintenance, and long-term support of complex systems. Their quality directly affects how accurately users perform tasks, how efficiently equipment is maintained, and how reliably organizations preserve technical knowledge across the asset lifecycle.

This course equips participants with a structured understanding of S1000D, military technical manual requirements, technical authoring practices, and publication quality controls. It develops the ability to organize complex information, create clear procedures, manage reusable content, and maintain consistency between engineering data and published instructions.

Participants can apply the course outputs by improving authoring standards, establishing business rules, developing data modules, strengthening review workflows, and implementing controlled revision processes. They will also be able to transform approved technical information into training manuals, exercises, assessments, and practical job-support materials.

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Over the long term, these capabilities help organizations improve document reliability, accelerate updates, support configuration control, and reduce duplicated authoring effort. They also strengthen operational readiness, workforce competence, maintenance performance, and the sustainable management of technical information.

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