



TRAINING CURRICULUM GUIDE



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Executive Summary

Pentecom University provides the subject-matter expertise and training you need to make an effortless transition to the ASD S1000D Specification. Our training offerings provide instructor-led classes that can be tailored to your needs. Depending on your needs, tailoring can add or remove curriculum details, which can and will affect the typical course length.

Our flexible training program ensures you and your team will receive the training you need in the format and timelines that work best for you. You will be paired with one of our Pentecom consultants, who bring real-world implementation successes and challenges into your classroom. Their hands-on experiences with our current and past customer implementations bring in-depth knowledge into the training. The goal is to help you meet the requirements for your customer. We understand the U.S. military aspect of S1000D.



Pentecom offers standard or customized classroom training to develop your expertise in several critical areas.

S1000D Overview

Typical Course Length: 6 to 8 hours

Description: This class provides an overview of S1000D concepts for students who are familiar with producing technical publications but are new to the S1000D specification. Students will learn about the specification requirements and better understand their implications as a contractual requirement and as a guideline for technical product-information delivery. After completion of this class, students will have a clear understanding of what is expected by the standard in terms of data production, business processes, business rules, and delivery of information using S1000D, including details in the following topics:

- The role of S1000D in its overall context of technical publications
- The history and current trends or fields of application for S1000D
- The crucial factors leading to a successful implementation
- The Common Source Data Base (CSDB) and the data module concept
- The publication process and the various types of processes supporting CSDB objects
- Metadata and maintenance of the CSDB content in a life-cycle perspective
- Exchanging data in accordance with S1000D
- Publishing the content of the CSDB

Prerequisites: A student should have experience with documentation systems, writing, or documentation standards in general.

Audience:

- Program and project managers
- Contract administrators
- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Authoring: Identification and Status

Typical Course Length: 1.5 Hours

Description: This class is designed to familiarize students with the identification and status information of the data module. Students completing this course will understand what is contained within the identification and status section of S1000D data modules, including how this data is used and created.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Authors, reviewers, illustrators, and users

S1000D Authoring: Common Constructs

Typical Course Length: 4 hours

Description: This class is designed to familiarize student with the common constructs within the S1000D schemas. Students who complete this course will have a thorough understanding of S1000D elements and attributes that are common across many, if not all, S1000D data modules. Example common constructs include paras, lists, levelled paragraphs, tables, and figures. After completion of this course, students will understand common elements and structures used throughout S1000D data module types and will be able to read S1000D schemas.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Authoring: Descriptive Content

Typical Course Length: 1 to 2 Hours

Description: This class is designed to provide students with an understanding of descriptive data modules, descriptive content, and levelled paragraphs. A thorough discussion of the S1000D descriptive data module, which is used to detail non-procedural information, such as general information, theory of operation, or supporting information. After completion of this course, students will have a clear understanding of descriptive data modules.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Authoring: Procedural Content

Typical Course Length: 1 to 2 Hours

Description: This class is designed to provide students with an understanding of a procedural data module., which is used to present steps necessary to perform a given task/repair.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Authoring: Fault Content

Typical Course Length: 1 to 2 Hours

Description: This class is designed help students understand what fault data modules contain and their purpose.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Authoring: IPD Content

Typical Course Length: 2 Hours

Description: This class is designed to provide students with an understanding of the Illustrated part data module, which provides illustrated parts data for those components that have replaceable subassemblies and parts.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Authoring: Crew Content

Typical Course Length: 2 Hours

Description: This class is designed to provide students with an understanding of a crew data module, which is used to present detail for all crew/operator content.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Illustrations and Multimedia

Typical Course Length: 1 Hour

Description: This class is designed to provide students with an understanding of the illustration rules and modes of presentation, including valid file formats, information needed to create and name an illustration, and how a publishing system should display the image and its meta data. After completion of this course, students will have a clear understanding of how to use illustrations in context of S1000D.

Prerequisites: A student is expected to have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Authoring: Publication Modules

Typical Course Length: 1 Hour

Description: This class is designed to provide students with an understanding of a publication data module, which defines the content and the structure of a publication and contains one or more references to data modules, including front matter data modules and access illustration data modules, other publication modules, or legacy technical publications. After completion of this course, students will have a clear understanding of publication modules.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Applicability Overview

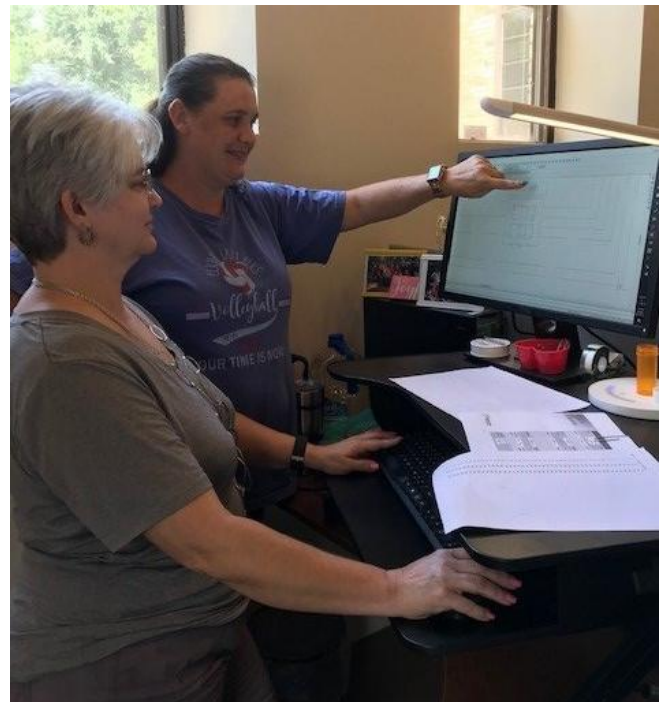
Typical Course Length: 5 Hours

Description: This class is designed to provide students with an understanding of S1000D applicability. The class will cover the history of applicability concepts, as well as how applicability affects publishing. Students will gain an understanding of the applicability cross-reference table (ACT), product cross-reference table (PCT), and conditions cross-reference table (CCT) files to the arrangement of assert statements within the data modules. This class provides an examination of all the elements and attributes associated with this key aspect of the specification. After completion of this course, students will understand the history of applicability concepts, how applicability affects publishing, the ACT, CCT, and PCT files, and the arrangement of applicability statements within S1000D data modules, as well as how to author applicability statements.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Change Management

Typical Course Length: 3 Hours

Description: This class presents aspects of S1000D related to managing content changes and change markup. It introduces the major aspects of managing change within data modules. Students will gain an understanding of change XML markup and the expected S1000D change lifecycle concepts. After completion of this course, students will have a clear understanding of change management regarding data production, business processes, business rules, and delivery of information.

Prerequisites: A student is expected to have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Common Information Repositories

Typical Course Length: 3 Hours

Description: This class presents aspects of S1000D related to authoring, managing, and publishing common information repositories (CIRs). It will introduce the major aspects of managing CIR data modules. After completion of this course, students will have a clear understanding of CIRs regarding data production, business processes, business rules, and delivery of information.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Administrative Information

Typical Course Length: 1 Hour

Description: This class presents the S1000D administrative information schema types and their purpose. After completion of this course, students will have a clear understanding of comments, data dispatch notes, and data module list schema types.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

S1000D Business Rules

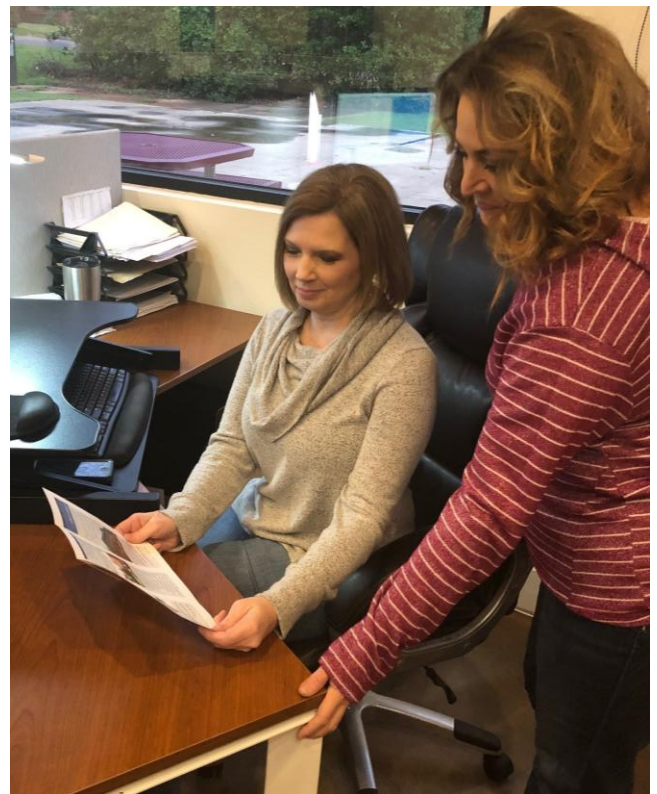
Typical Course Length: 4 Hours

Description: This class presents S1000D business rules. Students will be provided with an overview of business rules and an understanding of the types of business rules, as well as the development and sustainment process. Business Rules EXchange files will also be discussed. After completion of this course, students will gain an understanding of what business rules and business rule decision points are, how the development and the sustainment process work, and how business rules are layered and validated.

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



S1000D Legacy Conversion and Publishing

Typical Course Length: 2 Hours

Description: The first part of this class presents characteristics of legacy data conversion processes, looking at various stages and outlining options and considerations when converting to S1000D. The second portion of the class will cover best practices and considerations when publishing S1000D to multichannel output. Students will be exposed to various conversion and publishing topics, including the following subjects:

Prerequisites: A student should have knowledge of S1000D and experience with documentation systems, writing, XML, or documentation standards in general.

- Legacy conversion
- Conversion preplanning
- Technical hurdles
- Conversion pitfalls and solutions
- One-time vs initial conversion with sustainment
- Publishing a. paper vs digital
- Printing from digital
- XML delivery

Audience:

- Program and project managers
- Contract administrators
- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators

XML Overview

Typical Course Length: 4 Hours

Description: This class provides an overview of XML and XML concepts in any environment. This course provides students with an introduction to XML and discusses fundamental concepts and processes for creating, managing, and publishing XML data.

Prerequisites: A student is expected to have knowledge and experience with documentation systems, writing, or documentation standards in general.

Audience:

- S1000D administrators, super users, and publications administrators
- Technical writers
- Reviewers and editors
- Illustrators



Pentecom's recognized industry experts have helped and supported a wide range of military and private sector clients. Our trainers and consultants are highly skilled and available to help your company. Pentecom looks forward to providing the training that will allow your company to understand everything you need to know about S1000D quickly and thoroughly.