DATA ITEM DESCRIPTION

TITLE: INSTRUCTIONAL MEDIA DESIGN PACKAGE

Number: DI-SESS-81520B
Approval Date: 20010830
AMSC Number: N7466
Limitation:
DTIC Applicable: No
GIDEP Applicable: No
Office Of Primary Responsibility: N/AS/PMA205
Applicable Forms: None
Use/relationship: The Instructional Media Design Package provides the design documentation for the development and production of courseware.

a. This Data Item Description (DID) contains the preparation instructions for the content and format of the Instructional Media Design Package.

b. This DID contains the format, content, and intended use information for the data product resulting from the performance requirements described by 3.2.4 of MIL-PRF-29612B, and is applicable to the acquisition of training data products. Data product performance evaluation criteria are specified in 4.3.4 and 4.3.9 of MIL-PRF-29612B.

c. It is not intended that all the requirements contained herein be applied to every program or program phase. Portions of this DID are subject to deletion tailoring depending upon the program phase in which it is applied in the contract. Any individual data requirement contained in this DID is subject to deletion tailoring.

d. This DID supersedes DI-ILSS-81520A.

Requirements:

1. Format. The format of data contained within this DID is as follows:

    a. Page-based products, for which contractor format is acceptable.
    b. Standard digital data in compliance with the content and format requirements specified in the DoD Data Architecture (DDA) and the Defense Data Dictionary System (DDDS).

2. Content. The Instructional Media Design Package shall contain the following:

2.1 Front matter. The content of front matter shall be in accordance with Appendix A of MIL-PRF-29612B.

2.2 Summary description of training. The training summary shall provide a brief description of training materials being developed. The summary shall include:

    a. Training program title, identifier, and version identifier.

b. A brief description of the major topics.
c. Number of instructional hours training materials will be used.
d. A listing of the methodologies employed in the design, development, implementation, and presentation of the training program.
e. A listing of the equipment being simulated in the training program.
f. Location of the training sites.
g. Location of the administrative repository for the reports and evaluation materials to include necessary points of contact, addresses, and telephone number(s).
h. Keyword listing.
i. A description of the target audience to include occupational specialty and skill level.
j. Operational equipment designator and nomenclature covered by the training program.
k. Associated course(s) title and identification number.
l. Developmental software product name(s), version, vendor name, and Government rights code.
m. Operating system name, version, and additional software drivers required to operate the training program.
n. Portability standards name and version identifier.
o. Delivery system requirements description to include minimum free system memory, central processing unit type and speed, minimum hard drive storage space, number of disc drives and types, graphics adapter type, and input and output devices.
p. Security requirements code.
q. Security classification code and restrictions to distribution code.

2.3 Courseware design strategy. This data shall provide descriptions of elements required to design the courseware. The data shall also include over-teaching, integrated and isolated practices, front loading, prerequisite skills, combined task practices, media features, branching strategies, learning events, ratio of drill and practice, degree of simulation, and frequency of testing. The required elements shall include:

2.3.1 Conventions. This data shall identify the techniques, practices, principles, or procedures to be used throughout the design and presentation of the module or lesson. Conventions shall define the use of text (e.g., font size, type, color, background, placement), menus, warnings, cautions, procedures, tests, screen direction, placement of cues, touch areas, keys or other input devices, motion, stills, image source, audio configuration, and narration.

2.3.2 Course title and description. This data shall provide the title(s) and a brief description of the course(s).

2.3.3 Course task data. The data shall identify the specific tasks being supported and shall include the following:

2.3.3.1 Specific tasks. The data shall identify all tasks to be supported by the course and courseware. This information shall be provided as a narrative list and will provide the logical delivery sequence of the course and shall be consecutively numbered.

2.3.3.2 Estimated time to complete. The data shall provide an estimated time required for an average trainee to complete each course component.

2.3.3.3 Recommendations. This data shall include the identification of specific technical requirements and source material to enhance the design effort.

2.3.4 References. This data shall include the complete title and number of all reference materials used in course or courseware design.

2.3.5 Safety, hazard, or environmental considerations. This data shall include all safety, hazard, or environmental considerations.

2.3.6 Interface design and controls. This data shall describe interfaces and controls which support the input and pacing of trainee performance. The data to be provided shall include descriptions of the following:

a. Practice, remediation or branching as controlled by the trainee or system instructor.
b. Trainee practices (i.e., independent or practice including team interaction).
c. How the system shall be able to vary presentation rate to individual trainee ability.
d. How the system shall be able to vary the sequence and range of presentation based on trainee ability.
e. How the system shall allow the instructor to provide input during training or effect the individual or group performance pace and path.
f. How the portability commands and interface mechanisms supporting interface and controls shall be identified.

2.3.7 Test design strategy. This data shall provide a description of test scenarios, applying test items, presentation sequence, appropriate learning types and levels, frequency, student interface, remediation options, and performance tracking.

2.3.8 Abnormal operating conditions to be simulated. This data shall provide a description of abnormal operating condition(s) which could affect accomplishment of performance standards.

2.3.9 Course overview. This data shall identify each module or lesson of an instructional unit, and the recommended presentation sequence for all modules or lessons, and any interrelationships.

2.3.10 Course schedule. This data shall include a chart showing the course's daily and weekly schedule, learning objectives, enabling learning objectives, knowledge, skills, attitudes, instructional events, and media selected.

2.3.11 Performance tracking control features for instructional media. This data shall identify all course control and instructional media control features, their interrelationships, and their respective rationale. It shall include the following performance tracking and support features:

a. Trainee data to be collected, (e.g., name, rank, social security number, job position, training requirement, address).
b. Tracking of individual trainee progress through a course, (e.g., problem flags, time on task, use of help functions, comments, repetition, etc.).
c. Listing of individual and aggregate test scores and times.
d. Analysis of test items response branching.
e. Courseware routing (allows for entry, re-entry and instructor intervention).
f. Record of courseware and hardware usage by:

    (1) Student.
    (2) Instructor.
    (3) Support personnel.

g. Schedule of trainees, equipment, ranges, and other resources.
h. Inventory of course materials (e.g., expendables, ordnance, fuels).
i. A description of all management reports to be generated for supervisors and trainees.

2.3.12 Course Structure Format (CSF). A description of the CSF hierarchy to include sub-structure, sequencing, global properties, Sharable Content Objects (SCO), external references, and metadata tagging conventions reflect capability for operating and course using the specific Learning Management Systems (LMS).

2.4 Lesson strategy. The lesson strategies shall contain the following:

2.4.1 Organization and format. This data shall describe the organization and format of the lesson and segment strategies. It shall list the headers or section designators that are used, explain the meaning of each designator, and describe the type of information that is found under each. A key shall be used to explain the symbology. This explanation shall be supported with one or more illustrative examples. The lesson strategy shall exhibit traceability to the courseware development process and shall include:

a. A reference number, a unit number, and lesson number referenced from the syllabus.
b. A short title description of the subject to be covered. The title shall be taken from the syllabus lesson title.
c. A description of the media for each lesson.
d. A list of Learning Objectives (LOs) covered by each medium.
e. A brief overview of the content of the lesson shall be provided for lesson authors, Subject Matter Experts (SMEs), and students. The overview shall also include an explanation of why the lesson is required, how it is related to previous lessons, and how the lesson fits into the total program.

2.4.2 Learning objectives. The LOs shall describe the type and level of learning required for each LO. Each LO shall have two numbers assigned: (1) a sequence number to indicate its order of presentation and (2) an identification number to indicate its rank in the LO hierarchy.

2.4.3 Unit and lesson maps. The unit map shall contain a flow diagram showing the sequences and relationships among lessons in the instructional unit. The lesson map shall include a flow diagram showing the hierarchical relationships among lesson objectives.

2.4.4 Lesson design strategy. The lesson design strategies shall describe decision-making processes and strategies to be used in designing and implementing the presentation of material and testing student mastery of subject matter. Specific strategies shall include an instructional strategy for each lesson-learning phase, methods of interaction, procedures which assure testing at appropriate learning types and levels, and remediation. Segments to be tested shall be identified and the method of testing defined. (Specific emphasis should be placed on the design strategy for developing and implementing the instructional media into the training program and equipment.) Training, learning, and branching strategies shall also be included, when required. All strategies used shall be appropriately labeled and sequenced under the title description. The lesson design strategy shall identify the conventional techniques, practices, principles, or procedures to be used throughout the design and development of the instructional media module or lesson. The following information shall also be provided:

a. A statement of what type behavior the student must exhibit in order to master the LO.
b. The facts to be memorized, the critical attributes of a concept, the steps to follow in applying a rule or procedure, or the cause and effect relationship of a principle. Aids shall be included in the instructional content to help the student recall. The strategies data shall list the most common errors made by the student when learning.
c. A description of instance production and shall include each type of scenario that is to be included in the examples, practice, and test items. A table shall be provided listing the total number of examples, practice and test items that the lesson author must produce for each type of scenario.
d. A description of the theoretical basis upon which each instructional strategy is employed.
e. A description of SCO specifications and metadata tagging requirements necessary to support courseware object interoperability across platforms and systems, reusability, and Internet protocol compatibility.
f. A description of the level of granularity for the SCO to be applied within the lesson and the rationale for the level of granularity applied.
g. A list of the metadata tags required for each SCO in final deliverable format (i.e., compressed or uncompressed) as an element of the course or lesson.
h. A list of the metadata tags required for each original uncompressed format media object.

2.4.5 Test items. The test items shall include the type of test and the approach for feedback and remediation based on the lesson design strategy. A list of the test items to be used in measuring the student's knowledge shall be provided and include a statement of the minimum acceptable passing criteria for the lesson or segment. A list of examples and practice exercises to be used in support of the instruction shall also be provided.

2.4.6 Lesson format guide. The lesson format guide shall contain explanations of how each section of the lesson and segment specifications will be used during lesson authoring. Special instructions or additional information shall be provided to ensure accurate communication of the content for authors and artists. It shall contain a description of the following:

a. Text and graphic layout conventions.
b. Interpretation of lesson strategies.
c. Data sources for expansion of lesson strategies.
d. Learning strategy guidelines.
e. Use of symbology.
f. Titling.
g. Figure numbering.
h. Referencing conventions.
i. Page numbering.

2.4.7 Prototype lesson. The prototype lesson shall consist of courseware, to include supporting design and developmental documentation. (This prototype will demonstrate how the format guide is to be used in conjunction with a lesson strategy to produce the required lessons.)

2.4.8 Instructional media resource requirements. The data shall contain a summary of required resources to include:

a. An estimate of the visual and audio resources needed to support the course as follows:

    (1) Existing and new resource footage (e.g., video, audio, film, slides, photographs, graphics, artwork).
    (2) Support requirements (e.g., props, equipment, SMEs, military and civilian personnel).
    (3) Talent.
    (4) Field environment, (e.g., ranges, ships).
    (5) Studio requirement.
    (6) Special equipment.
    (7) Costumes and uniforms.
    (8) Lighting.
    (9) Animation rationale, source, and extent of usage.

b. A list of the material to be presented during the course.

c. A list of any adjunctive materials required to support the course.
d. A description of the types of personnel and their respective roles and responsibilities for lesson development.

2.5 Courseware logic flow diagrams. Courseware logic flow diagrams shall include all defined lesson tasks with references, information frame or sequence, decision points, branching options, remediation, and other screen activities. All flow diagram symbols used shall be clearly defined. Flow diagrams shall include:

a. All blocks of instruction and decision points.
b. All program paths or branches.
c. Video, graphics, and text frames with reference and sequence numbers.
d. Audio, still frame, and other audio configurations with reference and sequence numbers.
e. Performance decision notes.
f. Processing and design decision information that supports the remediation, non-scored test items, motion sequences, computer processing, performance update, scored test items, scoring routine, and database search commands to be used.
g. A legend identifying key symbols that connect elements of the flow diagram.

3. Standard digital data. Standard digital data shall be delivered for the Standard Data Elements (SDEs) marked with an "X" in the "Required" box in Table 1.

TABLE 1. Standard digital data requirements

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
(2. Content. The instructional Media Design Package shall contain the following:) ALIAS NAME DOCUMENT IDENTIFIER DOCUMENT NAME DOCUMENT-TYPE CODE	
(2.1 Front matter. Content of the front matter shall be in accordance with Appendix A of MIL-PRF-29612B.) ALIAS NAME DOCUMENT CATEGORY CODE DOCUMENT IDENTIFIER DOCUMENT NAME DOCUMENT-ASSOCIATION REASON CODE DOCUMENT-DEVELOPMENT-STAGE BEGIN CALENDAR DATE DOCUMENT-DEVELOPMENT-STAGE CODE DOCUMENT-REPRESENTATION-PUBLICATION CALENDAR DATE DOCUMENT-REPRESENTATION-PUBLICATION CODE DOCUMENT-TYPE CODE EDUCATIONAL-DISCIPLINE CODE EVALUATION IDENTIFIER EVALUATION-EVENT REASON CODE EVALUATION-METHODOLOGY IDENTIFIER EVENT IDENTIFIER EXAMINATION IDENTIFIER GUIDANCE IDENTIFIER GUIDANCE TEXT INSTRUCTIONAL-UNIT DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT INSTRUCTIONAL-UNIT-SECTION ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION TYPE CODE MATERIEL-ITEM IDENTIFIER MATERIEL-ITEM TYPE CODE OCCUPATION IDENTIFIER OCCUPATION NAME OCCUPATION-CLASSIFICATION CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
OCCUPATION-INSTRUCTIONAL-UNIT REASON CODE ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE ORGANIZATION-GUIDANCE ROLE CODE ORGANIZATION-INSTRUCTIONAL-UNIT-ROLE CODE ORGANIZATION-NAME TEXT ORGANIZATION-OCCUPATION REASON CODE ORGANIZATION-TYPE CATEGORY CODE POSITION DESCRIPTION TEXT POSITION IDENTIFIER POSITION-TASK-TYPE BEGIN CALENDAR DATE POSITION-TASK-TYPE END CALENDAR DATE POSITION-TASK-TYPE REASON CODE TASK-DOCUMENT REASON CODE TRAINING-RISK IDENTIFIER TRAINING-RISK LEVEL CODE	
(2.2 Summary description of training. The training summary shall provide a brief description of training materials being developed. The summary shall include:) ALIAS NAME DOCUMENT CATEGORY CODE DOCUMENT IDENTIFIER DOCUMENT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.2.a Training program title, identifier, and version identifier.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT VERSION IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT	
(2.2.b A brief description of the major topics.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-SECTION ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION TYPE CODE	
(2.2.c Number of instructional hours training materials will be used.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL DURATION QUANTITY INSTRUCTIONAL-UNIT-MATERIEL REASON CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
MATERIEL IDENTIFIER	
MATERIEL-ITEM DESCRIPTION TEXT	
(2.2.d A listing of the methodologies employed in the design, development, implementation, and presentation of the training program.) INSTRUCTIONAL-CLASS-METHOD CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY PURPOSE CODE INSTRUCTIONAL-UNIT IDENTIFIER LEARNING-OBJECTIVE IDENTIFIER	
(2.2.e A listing of the equipment being simulated in the training program.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL IDENTIFIER MATERIEL-ITEM DESCRIPTION TEXT MATERIEL-ITEM IDENTIFIER MATERIEL-ITEM TYPE CODE	
(2.2.f Location of the training sites.) FACILITY-LOCATION ASSOCIATION CODE FACILITY-LOCATION IDENTIFIER FACILITY-LOCATION SEQUENCE IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER LOCATION IDENTIFIER ORGANIZATION IDENTIFIER ORGANIZATION-FACILITY IDENTIFIER ORGANIZATION-FACILITY-REASON CODE ORGANIZATION-INSTRUCTIONAL-UNIT-ROLE CODE	
(2.2.g Location of the administrative repository for the reports and evaluation materials to include necessary points of contact, addresses, and telephone number(s).) DOCUMENT IDENTIFIER LOCATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE ORGANIZATION-LOCATION ASSOCIATION CODE PERSON FULL LEGAL NAME PERSON IDENTIFIER PERSON-NAME CATEGORY CODE PERSON-ORGANIZATION BEGIN CALENDAR DATE-TIME PERSON-ORGANIZATION END CALENDAR DATE-TIME PERSON-ORGANIZATION PERSON ROLE CODE	
(2.2.h Keyword listing.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
ALIAS NAME DOCUMENT CATEGORY CODE DOCUMENT IDENTIFIER DOCUMENT-ASSOCIATION REASON CODE	
(2.2.i A description of the target audience to include occupational specialty and skill level.) CERTIFICATION IDENTIFIER CERTIFICATION-TYPE IDENTIFIER EXAMINATION IDENTIFIER FACILITY-TYPE-REQUIREMENT IDENTIFIER FUND-REQUIREMENT IDENTIFIER FUND-REQUIREMENT TYPE NAME HARDWARE-REQUIREMENT-TYPE NAME INFORMATION-ASSET-REQUIREMENT IDENTIFIER INFORMATION-SYSTEM-REQUIREMENT TITLE NAME INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-REQUIREMENT REASON CODE LOCATION-REQUIREMENT IDENTIFIER MAINTENANCE-OPERATION-REQUIREMENT TYPE CODE OCCUPATION IDENTIFIER OCCUPATION-CLASSIFICATION CODE PERSON IDENTIFIER PERSON-CERTIFICATION-ROLE CODE PERSON-OCCUPATION PROFICIENCY CODE PERSON-TYPE IDENTIFIER PERSON-TYPE-CERTIFICATION-TYPE ROLE CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE PERSONNEL-SKILL OCCUPATIONAL GROUP CODE PSYCHOMOTOR-SKILL CATEGORY CODE PSYCHOMOTOR-SKILL TYPE CODE SKILL IDENTIFIER SOFTWARE-REQUIREMENT-TYPE NAME TEST TYPE CODE	
(2.2.j Operational equipment designator and nomenclature covered by the training program.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL ALTERNATE IDENTIFIER MATERIEL IDENTIFIER	
(2.2.k Associated course(s) title and identification number.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT	
(2.2.l Developmental software product name(s), version, vendor name, and Government rights code.) DATA-PROCESSING-EQUIPMENT TYPE NAME GUIDANCE IDENTIFIER GUIDANCE-CITATION SPECIAL ADMINISTRATION TYPE CODE INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET NAME INFORMATION-ASSET VERSION IDENTIFIER INFORMATION-ASSET-ORGANIZATION ROLE TYPE CODE INFORMATION-SYSTEM TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE ORGANIZATION IDENTIFIER ORGANIZATION-NAME TEXT SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT	
(2.2.m Operating system name, version, and additional software drivers required to operate the training program.) INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET NAME INFORMATION-ASSET VERSION IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT	
(2.2.n Portability standards name and version identifier.) GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE NAME GUIDANCE SUBJECT TEXT GUIDANCE-AMENDMENT IDENTIFIER GUIDANCE-ASSOCIATION ROLE CODE GUIDANCE-CITATION TYPE CODE INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET VERSION IDENTIFIER	
(2.2.o Delivery system requirements description to include minimum free system memory, central processing unit type and speed, minimum hard drive storage space, number of disc drives and types, graphics adapter type, and input and output devices.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
DATA-PROCESSING-EQUIPMENT TYPE NAME HARDWARE-REQUIREMENT-TYPE NAME INFORMATION-ASSET IDENTIFIER INPUT-OUTPUT-DEVICE TYPE NAME MATERIEL IDENTIFIER MATERIEL-ASSOCIATION IDENTIFIER SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT STORAGE-DEVICE TYPE NAME SYSTEM-PLATFORM DESCRIPTION TEXT	
(2.2.p Security requirements code.) FACILITY-TYPE-REQUIREMENT IDENTIFIER FACILITY-TYPE-REQUIREMENT RATIONALE TEXT FUND-REQUIREMENT IDENTIFIER GUIDANCE SUBJECT TEXT INFORMATION-ASSET-REQUIREMENT DESCRIPTION TEXT INFORMATION-ASSET-REQUIREMENT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-GUIDANCE REASON CODE LOCATION-REQUIREMENT DESCRIPTION TEXT LOCATION-REQUIREMENT IDENTIFIER	
(2.2.q Security classification code and restrictions to distribution code.) DOCUMENT-CAVEATED-SECURITY-CLASSIFICATION REASON CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE SUBJECT TEXT INSTRUCTIONAL-UNIT DISTRIBUTION RESTRICTION CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-GUIDANCE REASON CODE SECURITY-CLASSIFICATION CODE	
(2.3 Courseware design strategy. This data shall provide descriptions of elements required to design the courseware. The data shall also include over-teaching, integrated and isolated practices, front loading, prerequisite skills, combined task practices, media features, branching strategies, learning events, ratio of drill and practice, degree of simulation, and frequency of testing. The required elements shall include:) AUDIO-MEDIA-FORMAT IDENTIFIER GUIDANCE CATEGORY CODE GUIDANCE IDENTIFIER INSTRUCTIONAL-ACTIVITY IDENTIFIER INSTRUCTIONAL-CLASS-METHOD CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
INSTRUCTIONAL-METHODOLOGY TECHNIQUE CODE INSTRUCTIONAL-METHODOLOGY TYPE CODE INSTRUCTIONAL-METHODOLOGY-GUIDANCE REASON CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT LEARNING-STRATEGY CODE PRODUCTION-PURPOSE CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY RESPONSE CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.1 Conventions. This data shall identify the techniques, practices, principles, or procedures to be used throughout the design and presentation of the module or lesson. Conventions shall define the use of text (e.g., font size, type, color, background, placement), menus, warnings, cautions, procedures, tests, screen direction, placement of cues, touch areas, keys or other input devices, motion, stills, image source, audio configuration, and narration.) DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION-ASSOCIATION REASON CODE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE INSTRUCTIONAL-UNIT DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT	
(2.3.2 Course title and description. This data shall provide the title(s) and a brief description of the course(s).) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER	
(2.3.3 Course task data. The data shall identify the specific tasks being supported and shall include the following:) INSTRUCTIONAL-UNIT IDENTIFIER MATERIEL-ASSOCIATION IDENTIFIER PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT END CALENDAR DATE PERSON-MATERIEL-ITEM BEGIN CALENDAR DATE-TIME PERSON-MATERIEL-ITEM END CALENDAR DATE-TIME PERSON-MATERIEL-ITEM REASON CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.3.1 Specific tasks. The data shall identify all tasks to be supported by the course and courseware. This information shall be provided as a narrative list and will provide the logical delivery sequence of the course and shall be	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
consecutively numbered.) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT LEARNING-OBJECTIVE IDENTIFIER PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.3.2 Estimated time to complete. The data shall provide an estimated time required for an average trainee to complete each course component.) ANALYSIS-SAMPLE MEASUREMENT TYPE CODE ANALYSIS-SAMPLE QUANTITY ANALYSIS-SAMPLE-REQUIREMENT FEEDBACK DESCRIPTION TEXT ANALYSIS-SAMPLE-REQUIREMENT SIZE QUANTITY INSTRUCTIONAL-UNIT ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT IDENTIFIER PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT END CALENDAR DATE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.3.3 Recommendations. This data shall include the identification of specific technical requirements and source material to enhance the design effort.) ALIAS NAME AUDIO-MEDIA-FORMAT IDENTIFIER DOCUMENT IDENTIFIER DOCUMENT NAME DOCUMENT-DEVELOPMENT-STAGE BEGIN CALENDAR DATE DOCUMENT-DEVELOPMENT-STAGE CODE DOCUMENT-REPRESENTATION-PUBLICATION CALENDAR DATE DOCUMENT-REPRESENTATION-PUBLICATION CODE EVALUATION IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE PERSON FULL LEGAL NAME PERSON IDENTIFIER PERSON-DOCUMENT ROLE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
PERSON-NAME CATEGORY CODE PRODUCTION-PURPOSE CODE SPECIFIC-EVALUATION IDENTIFIER SPECIFIC-EVALUATION-ANALYSIS-ALTERNATIVE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.4 References. This data shall include the complete title and number of all reference materials used in course or courseware design.) ALIAS NAME DOCUMENT IDENTIFIER DOCUMENT NAME INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.3.5 Safety, hazard, or environmental considerations. This data shall include all safety, hazard, or environmental considerations.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-GUIDANCE REASON CODE INSTRUCTIONAL-UNIT-TRAINING-RISK-EVALUATION REASON CODE TRAINING-RISK IDENTIFIER	
(2.3.6 Interface design and controls. This data shall describe interfaces and controls which support the input and pacing of trainee performance. The data to be provided shall include descriptions of the following:) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE KNOWLEDGE LEARNING CODE LEARNING-OBJECTIVE IDENTIFIER PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE SKILL IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.6.a Practice, remediation or branching as controlled by the trainee or system instructor.) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT LEARNING-OBJECTIVE IDENTIFIER PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.6.b Trainee practices (i.e., independent or practice including team interaction).)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE PERSON-TYPE-INSTRUCTIONAL-UNIT REQUIRED QUANTITY PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.6.c How the system shall be able to vary presentation rate to individual trainee ability.) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY PURPOSE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL-ITEM REASON CODE MATERIEL-ASSOCIATION IDENTIFIER PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.6.d How the system shall be able to vary the sequence and range of presentation based on trainee ability.) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-CLASS-METHOD CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY PURPOSE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL-ITEM REASON CODE LEARNING-LEVEL CODE LEARNING-OBJECTIVE IDENTIFIER MATERIEL-ASSOCIATION IDENTIFIER PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.6.e How the system shall allow the instructor to provide input during training or effect the individual or group performance pace and path.) CAPABILITY IDENTIFIER FACILITY-CAPABILITY-ESTIMATE CAPABILITY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INSTRUCTOR-CAPABILITY CODE INSTRUCTIONAL-UNIT-MATERIEL-ITEM REASON CODE MATERIEL IDENTIFIER MATERIEL-ASSOCIATION IDENTIFIER PERSON-MATERIEL-ITEM REASON CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE SYSTEM-PLATFORM-CAPABILITY CODE	
(2.3.6.f How the portability commands and interface mechanisms supporting interface and controls shall be identified.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE NAME GUIDANCE SUBJECT TEXT GUIDANCE SYNOPSIS TEXT GUIDANCE-CITATION TYPE CODE MATERIEL-ASSOCIATION IDENTIFIER	
(2.3.7 Test design strategy. This data shall provide a description of test scenarios, applying test items, presentation sequence, appropriate learning types and levels, frequency, student interface, remediation options, and performance tracking.) EVALUATION IDENTIFIER EVALUATION-GUIDANCE REASON CODE EVALUATION-METHODOLOGY DESCRIPTION TEXT EVALUATION-METHODOLOGY IDENTIFIER EXAMINATION-METHOD DESIGN STRATEGY DESCRIPTION TEXT GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EVALUATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER SKILL IDENTIFIER	
(2.3.8 Abnormal operating conditions to be simulated. This data shall provide a description of abnormal operating condition(s) which could affect accomplishment of performance standards.) AUDIO-MEDIA-FORMAT IDENTIFIER FACILITY-CAPABILITY-ESTIMATE CAPABILITY TYPE CODE INSTRUCTIONAL-ACTIVITY COLLECTIVITY CODE INSTRUCTIONAL-METHODOLOGY OPERATIONAL CONDITION CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-CAPABILITY REASON CODE INSTRUCTIONAL-UNIT-INSTRUCTOR-CAPABILITY CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT LEARNING-OBJECTIVE IDENTIFIER PERFORMANCE-CONDITION IDENTIFIER PERFORMANCE-CONDITION NORMALITY CODE PERFORMANCE-CONDITION TYPE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
PRODUCTION-PURPOSE CODE SYSTEM-PLATFORM-CAPABILITY CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.9 Course overview. This data shall identify each module or lesson of an instructional unit, and the recommended presentation sequence for all modules or lessons, and any interrelationships.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-NAME TEXT	
(2.3.10 Course schedule. This data shall include a chart showing the course's daily and weekly schedule, learning objectives, enabling learning objectives, knowledge, skills, attitudes, instructional events, and media selected.) AUDIO-RECORDING IDENTIFIER INSTRUCTIONAL-ACTIVITY IDENTIFIER INSTRUCTIONAL-CLASS-METHOD CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-UNIT ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-OBJECTIVE-ASSOCIATION REASON CODE LEARNING-OBJECTIVE-SENSORY-STIMULUS-CUE CRITICALITY CODE SENSORY-STIMULUS-CUE IDENTIFIER SENSORY-STIMULUS-CUE TYPE CODE SKILL IDENTIFIER VISUAL-IMAGE IDENTIFIER	
(2.3.11 Performance tracking control features for instructional media. This data shall identify all course control and instructional media control features, their interrelationships, and their respective rationale. It shall include the following performance tracking and support features:) AUDIO-MEDIA-FORMAT IDENTIFIER CAPABILITY IDENTIFIER CAPABILITY TYPE CODE FACILITY-CAPABILITY-ESTIMATE CAPABILITY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INSTRUCTOR-CAPABILITY CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE SYSTEM-PLATFORM-CAPABILITY CODE VISUAL-IMAGE MEDIA TYPE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
(2.3.11.a Trainee data to be collected, (e.g., name, rank, social security number, job position, training requirement, address).) FACILITY-TYPE-REQUIREMENT IDENTIFIER FUND-REQUIREMENT IDENTIFIER FUND-REQUIREMENT TYPE NAME HARDWARE-REQUIREMENT-TYPE NAME INFORMATION-ASSET-REQUIREMENT IDENTIFIER INFORMATION-SYSTEM-REQUIREMENT TITLE NAME INSTRUCTIONAL-CLASS IDENTIFIER INSTRUCTIONAL-CLASS-INSTRUCTIONAL-UNIT ROLE CODE INSTRUCTIONAL-UNIT IDENTIFIER LOCATION-REQUIREMENT IDENTIFIER MAINTENANCE-OPERATION-REQUIREMENT TYPE CODE ORGANIZATION IDENTIFIER ORGANIZATION-POSTAL-ADDRESS-USAGE CODE ORGANIZATION-USPS-POSTAL-ADDRESS DELIVERY LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS LAST LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIMARY TEXT ORGANIZATION-USPS-POSTAL-ADDRESS SECONDARY TEXT PAY-PLAN CODE PAY-PLAN-GRADE ORDINAL IDENTIFIER PERSON FULL LEGAL NAME PERSON IDENTIFIER PERSON-INSTRUCTIONAL-CLASS ROLE CODE PERSON-NAME CATEGORY CODE PERSON-ORGANIZATION BEGIN CALENDAR DATE-TIME PERSON-ORGANIZATION END CALENDAR DATE-TIME PERSON-ORGANIZATION PERSON ROLE CODE PERSON-POSITION REASON CODE POSITION IDENTIFIER POSITION-QUALIFICATION-TYPE REASON CODE SOFTWARE-REQUIREMENT-TYPE NAME	
(2.3.11.b Tracking of individual trainee progress through a course, (e.g., problem flags, time on task, use of help functions, comments, repetition, etc.).) GENERATE-COMMENT-ACTIVITY TEXT INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNER-ACTIVITY IDENTIFIER LEARNER-ACTIVITY TYPE CODE LEARNING-LEVEL CODE LEARNING-OBJECTIVE IDENTIFIER MULTIPLE-TRIAL-ACTIVITY QUANTITY	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
PERFORMANCE-INDICATOR DESCRIPTION TEXT PERFORMANCE-INDICATOR IDENTIFIER PERSON IDENTIFIER PERSON-INSTRUCTIONAL-CLASS BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-CLASS END CALENDAR DATE PERSON-INSTRUCTIONAL-CLASS ROLE CODE TASK IDENTIFIER	
(2.3.11.c Listing of individual and aggregate test scores and times.) EVALUATION IDENTIFIER EXAMINATION IDENTIFIER INSTRUCTIONAL-CLASS-EXAMINATION BEGIN CALENDAR DATE-TIME INSTRUCTIONAL-CLASS-EXAMINATION END CALENDAR DATE-TIME INSTRUCTIONAL-UNIT IDENTIFIER PERFORMANCE-INDICATOR DESCRIPTION TEXT PERFORMANCE-INDICATOR IDENTIFIER PERSON IDENTIFIER PERSON-INSTRUCTIONAL-CLASS BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-CLASS END CALENDAR DATE PERSON-INSTRUCTIONAL-CLASS ROLE CODE	
(2.3.11.d Analysis of test items response branching.) EXAMINATION IDENTIFIER INQUIRY IDENTIFIER INQUIRY-OUTCOME RESULT RECOMMENDATION CODE INQUIRY-OUTCOME TYPE CODE INQUIRY-PREDEFINED-ANSWER SERIAL IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE	
(2.3.11.e Courseware routing (allows for entry, re-entry and instructor intervention).) AUDIO-MEDIA-FORMAT IDENTIFIER FACILITY-CAPABILITY-ESTIMATE CAPABILITY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-CAPABILITY REASON CODE INSTRUCTIONAL-UNIT-INSTRUCTOR-CAPABILITY CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT PRODUCTION-PURPOSE CODE SYSTEM-PLATFORM-CAPABILITY CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.11.f Record of courseware and hardware usage by:) INSTRUCTIONAL-UNIT IDENTIFIER MATERIEL-ASSOCIATION IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT END CALENDAR DATE PERSON-MATERIEL-ITEM BEGIN CALENDAR DATE-TIME PERSON-MATERIEL-ITEM END CALENDAR DATE-TIME PERSON-MATERIEL-ITEM REASON CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.11.f.1 Student.) PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.11.f.2 Instructor.) PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.11.f.3 Support personnel.) PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.11.g Schedule of trainees, equipment, ranges, and other resources.) INSTRUCTIONAL-CLASS IDENTIFIER INSTRUCTIONAL-CLASS INTENDED DURATION QUANTITY INSTRUCTIONAL-CLASS-INSTRUCTIONAL-UNIT ROLE CODE INSTRUCTIONAL-CLASS-MEETING BEGIN CALENDAR DATE-TIME INSTRUCTIONAL-CLASS-MEETING END CALENDAR DATE-TIME INSTRUCTIONAL-CLASS-MEETING-MATERIEL BEGIN CALENDAR DATE-TIME INSTRUCTIONAL-CLASS-MEETING-MATERIEL END CALENDAR DATE-TIME INSTRUCTIONAL-UNIT ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-FACILITY BEGIN TIME INSTRUCTIONAL-UNIT-FACILITY END TIME INSTRUCTIONAL-UNIT-FACILITY REASON CODE INSTRUCTIONAL-UNIT-FACILITY-TYPE ESTIMATED DURATION QUANTITY INSTRUCTIONAL-UNIT-MATERIEL DURATION QUANTITY INSTRUCTIONAL-UNIT-MATERIEL EXPECTED BEGIN CALENDAR DATE INSTRUCTIONAL-UNIT-MATERIEL EXPECTED END CALENDAR DATE INSTRUCTIONAL-UNIT-MATERIEL-ITEM REASON CODE MATERIEL-ASSOCIATION IDENTIFIER MATERIEL-ITEM IDENTIFIER PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT END CALENDAR DATE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.3.11.h Inventory of course materials (e.g., expendables, ordnance, fuels).) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-MATERIEL REASON CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
MATERIEL IDENTIFIER	
(2.3.11.i A description of all management reports to be generated for supervisors and trainees.) AUDIO-MEDIA-FORMAT IDENTIFIER DOCUMENT IDENTIFIER DOCUMENT-TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.3.12 Course Structure Format (CSF). A description of the CSF hierarchy to include sub-structure, sequencing, global properties, Sharable Content Objects (SCO), external references, and metadata tagging conventions reflect capability for operating and course using the specific Learning Management Systems (LMS).) AUDITORY-CUE VOLUME CODE COURSE IDENTIFIER DOCUMENT-REPRESENTATION DELIVERY RATE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE GENERATE-COMMENT-ACTIVITY DATE-TIME GENERATE-COMMENT-ACTIVITY TEXT INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET TYPE CODE INFORMATION-ASSET VERSION IDENTIFIER INSTRUCTIONAL-ACTIVITY IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT MAXIMUM DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION IDENTIFIER INSTRUCTIONAL-UNIT-TERMINATION CATEGORY CODE INSTRUCTIONAL-UNIT-TERMINATION REASON CODE INSTRUCTIONAL-UNIT-TEST MAXIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST MINIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST PASSING SCORE QUANTITY LANGUAGE CODE LEARNER-ACTIVITY DESCRIPTION TEXT LEARNER-ACTIVITY EXPECTED RESPONSE CODE LEARNER-ACTIVITY EXPECTED RESPONSE RATE LEARNER-ACTIVITY TYPE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
LEARNING-OBJECTIVE DESCRIPTION TEXT LEARNING-OBJECTIVE IDENTIFIER MULTIPLE-TRIAL-ACTIVITY DESCRIPTION TEXT MULTIPLE-TRIAL-ACTIVITY QUANTITY OBSERVABLE-ACTION-BEHAVIOR DESCRIPTION TEXT OBSERVABLE-ACTION-BEHAVIOR-MEASUREMENT QUANTITY OBSERVABLE-ACTION-BEHAVIOR-SENSORY-STIMULUS-CUE DELAY TOLERANCE QUANTITY ORGANIZATION IDENTIFIER ORGANIZATION NAME ORGANIZATION-NAME TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS BASIC TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS CITY REGION TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS SUPPLEMENTAL TEXT ORGANIZATION-USPS-POSTAL-ADDRESS DELIVERY LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS LAST LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIMARY TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIVATE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS SECONDARY TEXT PERFORMANCE-STANDARD DESCRIPTION TEXT PERSON FULL LEGAL NAME PERSON STREET ADDRESS TEXT PERSON-INSTRUCTIONAL-ACTIVITY-PERFORMANCE DESCRIPTION TEXT PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT-SCORE QUANTITY PERSON-INSTRUCTIONAL-UNIT-STATUS CODE PERSON-INSTRUCTIONAL-UNIT-STATUS EFFECTIVE CALENDAR DATE PERSON-NAME-USAGE CODE PERSON-OCCUPATION INFORMATION TEXT PERSON-ORGANIZATION PERSON ROLE CODE PERSON-TEST SCORE QUANTITY PERSON-TYPE IDENTIFIER STUDENT IDENTIFIER	
(2.4 Lesson strategy. The lesson strategies shall contain the following:) INSTRUCTIONAL-UNIT IDENTIFIER LEARNING-OBJECTIVE IDENTIFIER	
(2.4.1 Organization and format. This data shall describe the organization and format of the lesson and segment strategies. It shall list the headers or section designators that are used, explain the meaning of each designator, and describe the type of information that is found under each. A key shall be used	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
to explain the symbology. This explanation shall be supported with one or more illustrative examples. The lesson strategy shall exhibit traceability to the courseware development process and shall include:) AUDIO-MEDIA-FORMAT IDENTIFIER DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE INSTRUCTIONAL-ACTIVITY IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT LEARNING-OBJECTIVE IDENTIFIER LEARNING-STRATEGY CODE PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE SKILL IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.1.a A reference number, a unit number, and lesson number referenced from the syllabus.) INSTRUCTIONAL-UNIT IDENTIFIER	
(2.4.1.b A short title description of the subject to be covered. The title shall be taken from the syllabus lesson title.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-NAME TEXT	
(2.4.1.c A description of the media for each lesson.) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-ACTIVITY IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-OBJECTIVE-SENSORY-STIMULUS-CUE CRITICALITY CODE SENSORY-STIMULUS-CUE IDENTIFIER VISUAL-IMAGE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.1.d A list of Learning Objectives (LOs) covered by each medium.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
LEARNING-OBJECTIVE-SENSORY-STIMULUS-CUE CRITICALITY CODE SENSORY-STIMULUS-CUE IDENTIFIER VISUAL-IMAGE IDENTIFIER	
(2.4.1.e A brief overview of the content of the lesson shall be provided for lesson authors, Subject Matter Experts (SMEs), and students. The overview shall also include an explanation of why the lesson is required, how it is related to previous lessons, and how the lesson fits into the total program.) INSTRUCTIONAL-UNIT DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER MISSION IDENTIFIER	
(2.4.2 Learning objectives. The LOs shall describe the type and level of learning required for each LO. Each LO shall have two numbers assigned: (1) a sequence number to indicate its order of presentation and (2) an identification number to indicate its rank in the LO hierarchy.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE PRIORITY CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-OBJECTIVE-ASSOCIATION REASON CODE	
(2.4.3 Unit and lesson maps. The unit map shall contain a flow diagram showing the sequences and relationships among lessons in the instructional unit. The lesson map shall include a flow diagram showing the hierarchical relationships among lesson objectives.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-OBJECTIVE-ASSOCIATION REASON CODE	
(2.4.4 Lesson design strategy. The lesson design strategies shall describe decision-making processes and strategies to be used in designing and implementing the presentation of material and testing student mastery of subject matter. Specific strategies shall include an instructional strategy for each lesson learning-phase, methods of interaction, procedures which assure testing at appropriate learning types and levels, and remediation. Segments to be tested shall be identified and the method of testing defined. (Specific emphasis should be placed on the design strategy for developing and implementing the instructional media into the training program and equipment.) Training, learning, and branching strategies shall also be included, when	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
required. All strategies used shall be appropriately labeled and sequenced under the title description. The lesson design strategy shall identify the conventional techniques, practices, principles, or procedures to be used throughout the design and development of the instructional media module or lesson. The following information shall also be provided:) EXAMINATION IDENTIFIER EXAMINATION-METHOD DESIGN STRATEGY DESCRIPTION TEXT EXAMINATION-METHOD TYPE CODE GUIDANCE CATEGORY CODE INSTRUCTIONAL-CLASS-METHOD CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY PURPOSE CODE INSTRUCTIONAL-METHODOLOGY TECHNIQUE CODE INSTRUCTIONAL-METHODOLOGY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-STRATEGY CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE	
(2.4.4.a A statement of what type behavior the student must exhibit in order to master the LO.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE KNOWLEDGE LEARNING CODE LEARNING-OBJECTIVE IDENTIFIER OBSERVABLE-ACTION-BEHAVIOR CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE SKILL IDENTIFIER	
(2.4.4.b The facts to be memorized, the critical attributes of a concept, the steps to follow in applying a rule or procedure, or the cause and effect relationship of a principle. Aids shall be included in the instructional content to help the student recall. The strategies data shall list the most common errors made by the student when learning.) EXAMINATION IDENTIFIER GUIDANCE FUNCTIONAL TYPE CODE INQUIRY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER SKILL IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
(2.4.4.c A description of instance production and shall include each type of scenario that is to be included in the examples, practice, and test items. A table shall be provided listing the total number of examples, practice and test items that the lesson author must produce for each type of scenario.) EXAMINATION IDENTIFIER INQUIRY CATEGORY CODE INQUIRY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-SITUATION REASON CODE SITUATION IDENTIFIER	
(2.4.4.d A description of the theoretical basis upon which each instructional strategy is employed.) GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE SUBJECT TEXT GUIDANCE SYNOPSIS TEXT GUIDANCE-ASSOCIATION ROLE CODE INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY TYPE CODE LEARNING-STRATEGY CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE	
(2.4.4.e A description of SCO specifications and metadata tagging requirements necessary to support courseware object interoperability across platforms and systems, reusability, and Internet protocol compatibility.) AUDITORY-CUE VOLUME CODE COURSE IDENTIFIER DOCUMENT-REPRESENTATION DELIVERY RATE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE GENERATE-COMMENT-ACTIVITY DATE-TIME GENERATE-COMMENT-ACTIVITY TEXT INSTRUCTIONAL-CLASS IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT MAXIMUM DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION IDENTIFIER INSTRUCTIONAL-UNIT-TERMINATION CATEGORY CODE INSTRUCTIONAL-UNIT-TERMINATION REASON CODE INSTRUCTIONAL-UNIT-TEST MAXIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST MINIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST PASSING SCORE QUANTITY LANGUAGE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
LEARNER-ACTIVITY DESCRIPTION TEXT LEARNER-ACTIVITY EXPECTED RESPONSE CODE LEARNER-ACTIVITY EXPECTED RESPONSE RATE LEARNER-ACTIVITY TYPE CODE LEARNING-OBJECTIVE DESCRIPTION TEXT LEARNING-OBJECTIVE IDENTIFIER MULTIPLE-TRIAL-ACTIVITY DESCRIPTION TEXT MULTIPLE-TRIAL-ACTIVITY QUANTITY OBSERVABLE-ACTION-BEHAVIOR DESCRIPTION TEXT OBSERVABLE-ACTION-BEHAVIOR-MEASUREMENT QUANTITY OBSERVABLE-ACTION-BEHAVIOR-SENSORY-STIMULUS-CUE DELAY TOLERANCE QUANTITY ORGANIZATION NAME ORGANIZATION-NAME TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS BASIC TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS CITY REGION TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS SUPPLEMENTAL TEXT ORGANIZATION-USPS-POSTAL-ADDRESS LAST LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIMARY TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIVATE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS SECONDARY TEXT PERFORMANCE-OBJECTIVE NAME PERFORMANCE-STANDARD DESCRIPTION TEXT PERSON FULL LEGAL NAME PERSON STREET ADDRESS TEXT PERSON-INSTRUCTIONAL-ACTIVITY-PERFORMANCE DESCRIPTION TEXT PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT-SCORE QUANTITY PERSON-INSTRUCTIONAL-UNIT-STATUS CODE PERSON-INSTRUCTIONAL-UNIT-STATUS EFFECTIVE CALENDAR DATE PERSON-NAME-USAGE CODE PERSON-OCCUPATION INFORMATION TEXT PERSON-ORGANIZATION PERSON ROLE CODE PERSON-TEST SCORE QUANTITY PERSON-TYPE IDENTIFIER STUDENT IDENTIFIER	
(2.4.4.f A description of the level of granularity for the SCO to be applied within the lesson and the rationale for the level of granularity applied.) INFORMATION-ASSET COMMENT TEXT INFORMATION-ASSET IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
INFORMATION-ASSET TYPE CODE INFORMATION-ASSET VERSION IDENTIFIER ORGANIZATION IDENTIFIER	
(2.4.4.g A list of the metadata tags required for each SCO in final deliverable format (i.e., compressed or uncompressed) as an element of the course or lesson.) AUDITORY-CUE VOLUME CODE COURSE IDENTIFIER DOCUMENT-REPRESENTATION DELIVERY RATE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE GENERATE-COMMENT-ACTIVITY DATE-TIME GENERATE-COMMENT-ACTIVITY TEXT INSTRUCTIONAL-CLASS IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT MAXIMUM DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION IDENTIFIER INSTRUCTIONAL-UNIT-TERMINATION CATEGORY CODE INSTRUCTIONAL-UNIT-TERMINATION REASON CODE INSTRUCTIONAL-UNIT-TEST MAXIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST MINIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST PASSING SCORE QUANTITY LANGUAGE CODE LEARNER-ACTIVITY DESCRIPTION TEXT LEARNER-ACTIVITY EXPECTED RESPONSE CODE LEARNER-ACTIVITY EXPECTED RESPONSE RATE LEARNER-ACTIVITY TYPE CODE LEARNING-OBJECTIVE DESCRIPTION TEXT LEARNING-OBJECTIVE IDENTIFIER MULTIPLE-TRIAL-ACTIVITY DESCRIPTION TEXT MULTIPLE-TRIAL-ACTIVITY QUANTITY OBSERVABLE-ACTION-BEHAVIOR DESCRIPTION TEXT OBSERVABLE-ACTION-BEHAVIOR-MEASUREMENT QUANTITY OBSERVABLE-ACTION-BEHAVIOR-SENSORY-STIMULUS-CUE DELAY TOLERANCE QUANTITY ORGANIZATION NAME ORGANIZATION-NAME TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS BASIC TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS CITY REGION TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS SUPPLEMENTAL TEXT ORGANIZATION-USPS-POSTAL-ADDRESS LAST LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIMARY TEXT	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
ORGANIZATION-USPS-POSTAL-ADDRESS PRIVATE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS SECONDARY TEXT PERFORMANCE-OBJECTIVE NAME PERFORMANCE-STANDARD DESCRIPTION TEXT PERSON FULL LEGAL NAME PERSON STREET ADDRESS TEXT PERSON-INSTRUCTIONAL-ACTIVITY-PERFORMANCE DESCRIPTION TEXT PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT-SCORE QUANTITY PERSON-INSTRUCTIONAL-UNIT-STATUS CODE PERSON-INSTRUCTIONAL-UNIT-STATUS EFFECTIVE CALENDAR DATE PERSON-NAME-USAGE CODE PERSON-OCCUPATION INFORMATION TEXT PERSON-ORGANIZATION PERSON ROLE CODE PERSON-TEST SCORE QUANTITY PERSON-TYPE IDENTIFIER SHARABLE-CONTENT-OBJECT DELIVERY FORMAT CODE SHARABLE-CONTENT-OBJECT TYPE CODE STUDENT IDENTIFIER	
(2.4.4.h A list of the metadata tags required for each original uncompressed format media object.) AUDITORY-CUE VOLUME CODE COURSE IDENTIFIER DOCUMENT-REPRESENTATION DELIVERY RATE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE GENERATE-COMMENT-ACTIVITY DATE-TIME GENERATE-COMMENT-ACTIVITY TEXT INSTRUCTIONAL-CLASS IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT MAXIMUM DURATION QUANTITY INSTRUCTIONAL-UNIT-SECTION IDENTIFIER INSTRUCTIONAL-UNIT-TERMINATION CATEGORY CODE INSTRUCTIONAL-UNIT-TERMINATION REASON CODE INSTRUCTIONAL-UNIT-TEST MAXIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST MINIMUM SCORE QUANTITY INSTRUCTIONAL-UNIT-TEST PASSING SCORE QUANTITY LANGUAGE CODE LEARNER-ACTIVITY DESCRIPTION TEXT LEARNER-ACTIVITY EXPECTED RESPONSE CODE LEARNER-ACTIVITY EXPECTED RESPONSE RATE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
LEARNER-ACTIVITY TYPE CODE LEARNING-OBJECTIVE DESCRIPTION TEXT LEARNING-OBJECTIVE IDENTIFIER MULTIPLE-TRIAL-ACTIVITY DESCRIPTION TEXT MULTIPLE-TRIAL-ACTIVITY QUANTITY OBSERVABLE-ACTION-BEHAVIOR DESCRIPTION TEXT OBSERVABLE-ACTION-BEHAVIOR-MEASUREMENT QUANTITY OBSERVABLE-ACTION-BEHAVIOR-SENSORY-STIMULUS-CUE DELAY TOLERANCE QUANTITY ORGANIZATION NAME ORGANIZATION-NAME TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS BASIC TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS CITY REGION TEXT ORGANIZATION-NON-USPS-POSTAL-ADDRESS SUPPLEMENTAL TEXT ORGANIZATION-USPS-POSTAL-ADDRESS LAST LINE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIMARY TEXT ORGANIZATION-USPS-POSTAL-ADDRESS PRIVATE TEXT ORGANIZATION-USPS-POSTAL-ADDRESS SECONDARY TEXT PERFORMANCE-OBJECTIVE NAME PERFORMANCE-STANDARD DESCRIPTION TEXT PERSON FULL LEGAL NAME PERSON STREET ADDRESS TEXT PERSON-INSTRUCTIONAL-ACTIVITY-PERFORMANCE DESCRIPTION TEXT PERSON-INSTRUCTIONAL-UNIT BEGIN CALENDAR DATE PERSON-INSTRUCTIONAL-UNIT-SCORE QUANTITY PERSON-INSTRUCTIONAL-UNIT-STATUS CODE PERSON-INSTRUCTIONAL-UNIT-STATUS EFFECTIVE CALENDAR DATE PERSON-NAME-USAGE CODE PERSON-OCCUPATION INFORMATION TEXT PERSON-ORGANIZATION PERSON ROLE CODE PERSON-TEST SCORE QUANTITY PERSON-TYPE IDENTIFIER SHARABLE-CONTENT-OBJECT DELIVERY FORMAT CODE SHARABLE-CONTENT-OBJECT TYPE CODE STUDENT IDENTIFIER	
(2.4.5 Test items. The test items shall include the type of test and the approach for feedback and remediation based on the lesson design strategy. A list of the test items to be used in measuring the student's knowledge shall be provided and include a statement of the minimum acceptable passing criteria for the lesson or segment. A list of examples and practice exercises to be used	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
in support of the instruction shall also be provided.) EVALUATION IDENTIFIER EXAMINATION IDENTIFIER GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE SUBJECT TEXT INQUIRY IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-STRATEGY CODE OBSERVABLE-ACTION-BEHAVIOR-MEASUREMENT QUANTITY REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE	
(2.4.6 Lesson format guide. The lesson format guide shall contain explanations of how each section of the lesson and segment specifications will be used during lesson authoring. Special instructions or additional information shall be provided to ensure accurate communication of the content for authors and artists. It shall contain a description of the following:) GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER INSTRUCTIONAL-METHODOLOGY IDENTIFIER INSTRUCTIONAL-METHODOLOGY TYPE CODE INSTRUCTIONAL-UNIT DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER LEARNING-OBJECTIVE IDENTIFIER LEARNING-STRATEGY CODE REMEDIAL-INSTRUCTIONAL-METHODOLOGY TYPE CODE	
(2.4.6.a Text and graphic layout conventions.) AUDIO-MEDIA-FORMAT IDENTIFIER DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
(2.4.6.b Interpretation of lesson strategies.) AUDIO-MEDIA-FORMAT IDENTIFIER LEARNING-STRATEGY CODE PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.6.c Data sources for expansion of lesson strategies.) DATA-PROCESSING-EQUIPMENT TYPE NAME DOCUMENT IDENTIFIER DOCUMENT-DEVELOPMENT-STAGE CODE DOCUMENT-REPRESENTATION-PUBLICATION CODE INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE LEARNING-OBJECTIVE IDENTIFIER ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE PERSON FULL LEGAL NAME PERSON IDENTIFIER PERSON-DOCUMENT ROLE CODE PERSON-NAME CATEGORY CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT	
(2.4.6.d Learning strategy guidelines.) GUIDANCE IDENTIFIER GUIDANCE SUBJECT TEXT GUIDANCE SYNOPSIS TEXT LEARNING-STRATEGY CODE	
(2.4.6.e Use of symbology.) DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.4.6.f Titling.) DOCUMENT IDENTIFIER DOCUMENT NAME DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ASSOCIATION REASON CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.4.6.g Figure numbering.) DOCUMENT CATEGORY CODE DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.4.6.h Referencing conventions.) ALIAS NAME DOCUMENT CATEGORY CODE DOCUMENT IDENTIFIER DOCUMENT-ASSOCIATION REASON CODE GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER GUIDANCE SUBJECT TEXT GUIDANCE SYNOPSIS TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.4.6.i Page numbering.) DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION MEDIUM CODE DOCUMENT-REPRESENTATION SERIAL IDENTIFIER DOCUMENT-REPRESENTATION-ASSOCIATION REASON CODE DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE	
(2.4.7 Prototype lesson. The prototype lesson shall consist of courseware, to include supporting design and developmental documentation. (This prototype will demonstrate how the format guide is to be used in conjunction with a lesson strategy to produce the required lessons.)) EXAMINATION IDENTIFIER GUIDANCE CATEGORY CODE GUIDANCE FUNCTIONAL TYPE CODE GUIDANCE IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-EXAMINATION REASON CODE	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
INSTRUCTIONAL-UNIT-GUIDANCE REASON CODE INSTRUCTIONAL-UNIT-PLANNED-COST AMOUNT LEARNING-OBJECTIVE IDENTIFIER LEARNING-STRATEGY CODE	
(2.4.8 Instructional media resource requirements. The data shall contain a summary of required resources to include:) AUDIO-MEDIA-FORMAT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.8.a An estimate of the visual and audio resources needed to support the course as follows:) AUDIO-MEDIA-FORMAT IDENTIFIER AUDIO-MEDIA-FORMAT TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.8.a.1 Existing and new resource footage (e.g., video, audio, film, slides, photographs, graphics, artwork).) ALIAS IDENTIFIER ALIAS NAME AUDIO-MEDIA-FORMAT IDENTIFIER EVENT BEGIN CALENDAR DATE-TIME EVENT END CALENDAR DATE-TIME INSTRUCTIONAL-UNIT IDENTIFIER PRODUCTION IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.8.a.2 Support requirements (e.g., props, equipment, SMEs, military and civilian personnel).) DATA-PROCESSING-EQUIPMENT TYPE NAME INFORMATION-ASSET DEFINITION TEXT INFORMATION-ASSET IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL IDENTIFIER MATERIEL-ITEM DESCRIPTION TEXT PAY-PLAN CODE PAY-PLAN-GRADE ORDINAL IDENTIFIER PERSON IDENTIFIER PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE PERSONNEL-RESOURCE TYPE CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
(2.4.8.a.3 Talent.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER OCCUPATION IDENTIFIER PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE PSYCHOMOTOR-SKILL CATEGORY CODE SKILL IDENTIFIER	
(2.4.8.a.4 Field environment, (e.g., ranges, ships).) DOD-UNIQUE-COMMODITY-CLASSIFICATION CODE FACILITY-CATEGORY CODE FACILITY-CLASS CODE FACILITY-TYPE CODE FUEL-TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-FACILITY-TYPE REASON CODE INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL CATEGORY CODE MATERIEL IDENTIFIER MATERIEL-ITEM TYPE CODE MATERIEL-ITEM-SUPPLY HAZARDOUS MATERIAL CODE RANGE-FACILITY-CHARACTERISTIC CODE	
(2.4.8.a.5 Studio requirement.) FACILITY-TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-FACILITY-TYPE REASON CODE MATERIEL IDENTIFIER MATERIEL-ITEM DESCRIPTION TEXT	
(2.4.8.a.6 Special equipment.) INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-LEARNING-OBJECTIVE REASON CODE LEARNING-OBJECTIVE IDENTIFIER LEARNING-OBJECTIVE-SENSORY-STIMULUS-CUE CRITICALITY CODE MATERIEL IDENTIFIER MATERIEL-DOCUMENT-MEDIA-TYPE CODE MATERIEL-ITEM DESCRIPTION TEXT SENSORY-STIMULUS-CUE DESCRIPTION TEXT SENSORY-STIMULUS-CUE IDENTIFIER VISUAL-IMAGE IDENTIFIER	
(2.4.8.a.7 Costumes and uniforms.) INSTRUCTIONAL-UNIT IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
PERSON-ATTIRE-STYLE CODE PERSON-TYPE-INSTRUCTIONAL-UNIT ROLE CODE	
(2.4.8.a.8 Lighting.) ACADEMIC-DOCUMENT ABILITY CODE FACILITY-CAPABILITY-ESTIMATE CAPABILITY TYPE CODE FACILITY-CAPABILITY-ESTIMATE IDENTIFIER FACILITY-TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-FACILITY-TYPE REASON CODE INSTRUCTIONAL-UNIT-INSTRUCTOR-CAPABILITY CODE SYSTEM-PLATFORM-CAPABILITY CODE	
(2.4.8.a.9 Animation rationale, source, and extent of usage.) DOCUMENT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT RATIONALE TEXT INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE ORGANIZATION-NAME TEXT VISUAL-IMAGE FORMAT CODE VISUAL-IMAGE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.4.8.b A list of the material to be presented during the course.) DOCUMENT-TYPE DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL IDENTIFIER MATERIEL-ITEM DESCRIPTION TEXT	
(2.4.8.c A list of any adjunctive materials required to support the course.) DOCUMENT NAME DOCUMENT-TYPE DESCRIPTION TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE INSTRUCTIONAL-UNIT-MATERIEL REASON CODE MATERIEL IDENTIFIER MATERIEL-ITEM DESCRIPTION TEXT	
(2.4.8.d A description of the types of personnel and their respective roles and responsibilities for lesson development.) INSTRUCTIONAL-UNIT IDENTIFIER	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
LEARNING-OBJECTIVE IDENTIFIER OCCUPATION IDENTIFIER ORGANIZATION-GUIDANCE ORGANIZATION ROLE CODE PSYCHOMOTOR-SKILL TYPE CODE SKILL IDENTIFIER	
(2.5 Courseware logic flow diagrams. Courseware logic flow diagrams shall include all defined lesson tasks with references, information frame or sequence, decision points, branching options, remediation, and other screen activities. All flow diagram symbols used shall be clearly defined. Flow diagrams shall include:) AUDIO-MEDIA-FORMAT IDENTIFIER DOCUMENT DESCRIPTION TEXT DOCUMENT IDENTIFIER DOCUMENT-TYPE CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE PRODUCTION IDENTIFIER PRODUCTION-PURPOSE CODE VISUAL-IMAGE MEDIA TYPE CODE	
(2.5.a All blocks of instruction and decision points.) DATA-PROCESSING-EQUIPMENT TYPE NAME EVALUATION IDENTIFIER EXAMINATION IDENTIFIER EXAMINATION-EVALUATION REASON CODE INFORMATION-ASSET IDENTIFIER INQUIRY IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT SPECIFIC-EVALUATION IDENTIFIER SPECIFIC-EVALUATION-ANALYSIS-ALTERNATIVE DESCRIPTION TEXT SPECIFIC-EVALUATION-ANALYSIS-ALTERNATIVE IDENTIFIER TRAINING-INFORMATION-SYSTEM-CHARACTERISTIC CODE	
(2.5.b All program paths or branches.) DATA-PROCESSING-EQUIPMENT TYPE NAME INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT TRAINING-INFORMATION-SYSTEM-CHARACTERISTIC CODE	
(2.5.c Video, graphics, and text frames with reference and sequence numbers.)	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
DOCUMENT IDENTIFIER DOCUMENT-ASSOCIATION REASON CODE INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE ORGANIZATION-NAME TEXT VISUAL-IMAGE FORMAT CODE VISUAL-IMAGE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.5.d Audio, still frame, and other audio configurations with reference and sequence numbers.) DOCUMENT IDENTIFIER INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-DOCUMENT REASON CODE ORGANIZATION IDENTIFIER ORGANIZATION-DOCUMENT BEGIN CALENDAR DATE ORGANIZATION-DOCUMENT END CALENDAR DATE VISUAL-IMAGE FORMAT CODE VISUAL-IMAGE IDENTIFIER VISUAL-IMAGE MEDIA TYPE CODE	
(2.5.e Performance decision notes.) DATA-PROCESSING-EQUIPMENT TYPE NAME INFORMATION-ASSET-RELATION REASON TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT TRAINING-INFORMATION-SYSTEM-CHARACTERISTIC CODE	
(2.5.f Processing and design decision information that supports the remediation, non-scored test items, motion sequences, computer processing, performance update, scored test items, scoring routine, and database search commands to be used.) DATA-PROCESSING-EQUIPMENT TYPE NAME INFORMATION-ASSET IDENTIFIER INFORMATION-ASSET-RELATION REASON TEXT INSTRUCTIONAL-UNIT IDENTIFIER INSTRUCTIONAL-UNIT-INFORMATION-ASSET REASON CODE SOFTWARE-APPLICATION FUNCTIONAL DESCRIPTION TEXT TRAINING-INFORMATION-SYSTEM-CHARACTERISTIC IDENTIFIER	
(2.5.g A legend identifying key symbols that connect elements of the flow	

TABLE 1. Standard digital data requirements - Continued

DID PARAGRAPH AND RELATED STANDARD DATA ELEMENT(S)	REQUIRED
diagram.) DOCUMENT IDENTIFIER DOCUMENT-REPRESENTATION-ELEMENT TYPE CODE	

4. End of DI-SESS-81520B.