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The Interactive Electronic Technical Manual How to Develop an Interactive Electronic Technical Manual Interactive Electronic Technical Manuals Department of Defense Handbook for Interoperability of Interactive Electronic Technical Manuals Web-Based Interactive Electronic Technical Manual (IETM) Common User Interface Style Guide, Version 2.0 Electronic Technical Manuals Online Proposed Draft Military Handbook Presenting Requirements for an Electronic Display System (EDS) for Interactive Electronic Technical Manuals (IETMs) Interactive Electronic Technical Manual Cost-benefit Analysis Tool Plan for DoD Wide Demonstrations of a DoD Improved Interactive Electronic Technical Manual (IETM) Architecture Cost-benefit Assessment of Interactive Electronic Technical Manuals in Navy Training and Education Evaluation of the Interactive Electronic Technical Manual/Automated Classroom (IETM/AC). Interactive Electronic Training Manual (IETM) Guide Interactive Electronic Technical Manuals (IETMs) ????? ????? ? ???????????? ?????? Report of the Workshops: Automated Generation of Electronic Technical Manuals Proposed Draft Military Specification for General Content, Style, Format, and User-Interaction Requirements for Interactive Electronic Technical Manuals Adaptive Fault Diagnosis in Interactive Electronic Technical Manuals (IETMs) Proposed Draft Military Specification for Quality Assurance (QA) Program Requirements for Interactive Electronic Technical Manuals (IETMs). Photonics Mast Foreign Military Sales Pricing Principles for Electronic Technical Manuals Results of a Joint Navy/Air Force Operational Test to Evaluate USAF Integrated Maintenance Information Systems (IMIS), Interactive Electronic Technical Manual (IETM) Technology Applied to the F/A-18 Aircraft Guide to the Preparation of Technical Manuals for Electronic Equipment Potential Benefits to Navy Training Programs Resulting from Increased Use of Interactive Electronic Technical Manuals. Phase 1. Initial Evaluation of IETM Applicability to Schoolhouse and Worksite Training Functions Operator and Organizational Maintenance Manual Personal Electronic Aid for Maintenance Accessibility and Acceptability in Technical Manuals Soldier's Manual The Navy Electricity and Electronics Training Series: Module 19 The Technician's Handbook AR 25-30 06/03/2015 ARMY PUBLISHING PROGRAM , Survival Ebooks U.S. Army Explosives and Demolitions Handbook From Research to Reality Marketing Your Library's Electronic Resources Writing Technical Articles, Speeches and Manuals Technical Manual Manuals Combined: U.S. Navy ELECTRONICS TECHNICIAN, VOLUMES 01 - 08 Report on Prototype Design IETM. Army Leadership and the Profession (ADP 6-22) MOS Evaluation Test Aid for Aviation Electronic Equipment Repairman (MOS Code 284). Fm 5-34 Engineer Field Data Defense logistics information on Apache helicopter support and readiness : report to Congressional committees

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This Report describes the Pilot-Demonstration Phase of the development of a Joint IETM Architecture (JIA) designed to assure Service-wide interoperability of Interactive Electronic Technical Manuals (IETMs) based on emerging World Wide Web technology. The goal of the JIA is to provide an environment in which all legacy, and newly acquired, Electronic Technical Manuals can be read by any end user with a common user interface display system, regardless of authorship of the Technical Information. From Research to Reality describes the stages involved in the approval and use of gene therapies in Canada, and examines challenges associated with regulatory oversight, manufacturing, access, and affordability, and identifies promising approaches to address them. This report reviews existing hindrances to the achievement of a fully effective modern Integrated Logistic System which results from the current reliance on paper-based Technical Manuals. It proposes that realization of the full integration of Technical Information required for effective logistics support of weapon systems and other DOD hardware can be accomplished only by adoption of a system which provides for automated preparation of interactive, electronically displayed Technical Information; specifically, through DOD-wide

adoption of the Interactive Electronic Technical Manual (IETM). The IETM concept is described in some detail. The advantages of IETMs in solving existing Technical Information preparation, distribution, control, and usability problems are discussed. A summary of previous analyses and operational tests of IETM concepts is provided. Functional requirements for an IETM system capable of providing effective logistic-support guidance (e.g., training, system operation, maintenance, and supply) are discussed. The report proposes establishment of a DOD strategy to achieve a coordinated adoption of the IETM within the Services, and describes in some detail the nature of the components of such a strategy. The Report summarizes recent activities in the Department of Defense and in the US Navy, Army and Air Force to establish Service use of Interactive Electronic Technical Manuals (IETMs) as replacements for paper Technical Manuals for logistic support of military equipment. The IETM concept is described, and an overview is provided of five IETM acquisition Specifications and Military Handbooks developed by the Tri-Service Interactive Electronic Technical Manual Working Group established in 1989 by the Defense Quality and Standardization office. One of these five draft documents, MIL-M-GCSFUI, Manuals, Interactive Electronic Technical: General Content, Style, Format, and User-Interactions for, 1 June 1990, is described and presented. (Four other companion Reports have been prepared to introduce and describe the four related IETM acquisition Specifications and Handbooks.) (rh). The Navy Personnel Research and Development Center (NPRDC), working with the Naval Sea Systems Command (NAVSEA) and Chief of Naval Education and Training (CNET), completed a program of research, development, and evaluation for automating classroom activities in which interactive electronic technical manuals (IETMs) are used. The project addressed two Navy training problems: (1) the need to utilize emerging technologies to improve maintenance performanoe and reduce maintenance costs and (2) the need to improve the efficiency of the Navy training pipeline. These problems are being addressed by combining IETM technology with an integrated multimedia editing and delivery system. It’s often hard to juggle promoting a library’s e-resources effectively at the same time as building basic visibility within the community it serves. Useful for librarians at any type of institution, this How-To-Do-It Manual guides readers through every step of developing, implementing, and evaluating plans to market e-resources in an approachable and user-friendly way. Kennedy and LaGuardia show how front line librarians can improve awareness of under-utilized resources and increase demand for more of the same, thereby encouraging increased funding. Their book includes Four complete programs from both public and academic libraries A step-by-step organization guide, with a variety of feedback and assessment forms which can be used as models Numerous examples of well-executed plans and outcomes This report summarizes Phase I of a study entitled Training Benefit Analysis of the Accelerated Use of Interactive Electronic Technical Manuals (IETM's). An initial evaluation of the interactive, computer controlled display of technical information has been carried out by the Navy training community. Results indicate the use of IETM's, integrated with automated courseware, could significantly improve training processes. Forty-seven candidate projects covering surface, air and submarine warfare areas were identified. Fifteen IETM hypotheses and associated implementation scenarios were evaluated. Of these, twelve were supported by more than two-thirds of the participants in this study. Candidate projects were identified for business-case-analyses to be performed in Phase II. This report also identifies technical and administrative issues which must be addressed before the full potential of IETM's can be realized. Measures needed for greater integration, infrastructure support and standardization of IETM's in training are recommended. Phase II of the study will consist of a more detailed analysis of the selected candidate projects, particularly from the standpoint of return on investment. This will provide the Chief of Naval Operations with the basis for training input to the Program Objective Memorandum (POM) '98 preparation process. Major efforts are

underway within the Department of Defense (DoD) and the joint services to develop and transition technology which will speed the origination and exchange of information required to conduct day to day operations. A major focus of these efforts are Interactive Electronic Technical Manuals (IETM). These automate the diagnostics and maintenance of a defense system and may use an expert system to perform diagnostics. Draft IETM specifications are being reviewed and pilot studies to identify portable maintenance aid (PMA) platforms are underway. The purpose of this task is the development of a prototype IETM based on the (draft) General Content, Style, Functionality and User Interaction (MIL-M-GCSFUI) and IETM Data Base (MIL-D-IETMDB) Military Specifications. The prototype will provide a framework for evaluating the proposed standards and whether they are adequate for the creation of a viable IETM using commercial off-the-shelf (COTS) software. Unlike prior attempts to develop IETMs, this effort utilizes COTS software which is part of the JCALS system. The prototype integrates a hypertext browser and a model-based expert diagnostic system. The user may optionally select the expert system to perform diagnostics on a defense system. The prototype system will be interactive and context sensitive. The data used for developing the IETM data base and demonstrating the prototype system are from the Air Force Technical Orders for the Communications System of the F-l6 C and D aircraft. This report details design considerations for the preparation of the technical data used to develop the IETM data base, the tailoring of the hypertext browser to operate according to the IBTM specifications, and the integration of the model-based expert system. The proposed user interface design is included as an appendix to this report. Paper-based technical manuals are expensive to produce and maintain, difficult to update and modify, and bulky and inflexible in the field. They are fast approaching their practical limit in coping with the complexity of modern Air Force weapons systems. The next 10 to 15 years hold the promise of a revolution, triggered by emerging technologies, in the production and presentation of aircraft maintenance information. This report describes a vision of integrated and electronically based maintenance information support in the future, and suggests the specific research and development goals necessary to achieve that vision. The report identifies a number of emerging technologies which will enable maintenance instructions to be created and managed more efficiently, and used more effectively, than they are now. Outlined herein are the essential advancements in applicable field needed to migrate from a costly and cumbersome world of paper production to the lean world of digital production and delivery. Success in these pursuits will bring enormous benefits both within the economy of human-centered design technology for concurrent engineering and in the performance of maintenance personnel. Over 1,300 total pages .... 14086A Electronics Technician, Volume 1 Safety and Administration 'This is the first volume in the ET Training Series. Covers causes and prevention of mishaps, handling of hazardous materials; identifies the effects of electrical shock; purpose of the tag-out bill and personnel responsibilities, documents, and procedures associated with tag out; and identifies primary safety equipment associated with ET work. Provides an overview of general and technical administration and logistics. Included are descriptions of forms and procedures included in the Maintenance Data System (MDS) and publications that should be included in a ship's technical library. Also included is a basic description of the Naval Supply System and COSAL. This volume combines the previous ET volumes 1 & 2 and has been updated. 14087 ELECTRONICS TECHNICIAN, VOLUME 02--ADMINISTRATION OBSOLETE: no further enrollments allowed. Provides an overview of general and technical administration and logistics. Included are descriptions of forms and procedures included in the Maintenance Data System (MDS) and publications that should be included in a ship's technical library. Also included is a basic description of the Naval Supply System and COSAL. 14088 ELECTRONICS TECHNICIAN, VOLUME 03--COMMUNICATIONS SYSTEMS Provides operations-related information on Navy

communications systems including SAS, TEMPEST, satellite communications, Links 11, 4-A, and 16, the C2P system, and a basic introduction to local area networks (LANs). 14089 ELECTRONICS TECHNICIAN, VOLUME 04--RADAR SYSTEMS Provides a basic introduction to air search, surface search, ground-controlled approach, and carrier controlled approach RADAR systems. Included are basic terms associated with RADAR systems, descriptions of equipment that compose the common systems, descriptions of RADAR interfacing procedures and equipment, and primary radar safety topics. 14090 ELECTRONICS TECHNICIAN, VOLUME 05--NAVIGATION SYSTEMS Introduces the primary navigation systems used by U.S. Navy surface vessels. It provides a basic introduction to and explanation of the Ship's Inertial Navigation System (SINS), the U.S. Navy Navigation Satellite System (NNSS), and the NAVSTAR Global Positioning System (GPS) and associated equipment. It then provides an introduction to and explanation of the Tactical Air Navigation system (TACAN) and its associated equipment. The information provided is written at an introductory level and is not intended to be used by technicians for diagnoses or repairs. 14091 ELECTRONICS TECHNICIAN, VOLUME 06--DIGITAL DATA SYSTEMS Covers the following subject matter on computers and peripherals: fundamentals and operations, configurations and hardware, operator controls and controlling units, components and circuits, central processing units and buses, memories, input/output and interfacing, instructions and man/machine interfaces, magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices and switchboards. 14092 ELECTRONICS TECHNICIAN, VOLUME 07--ANTENNAS AND WAVE PROPAGATION Covers a basic introduction to antennas and wave propagation. It includes discussions about the effects of the atmosphere on rf communications, the various types of communications and radar antennas in use today, and a basic discussion of transmission lines and waveguide theory. 14093 ELECTRONICS TECHNICIAN, VOLUME 08--SUPPORT SYSTEMS Provides a basic introduction to support systems: liquid cooling, dry air, ac power distribution, ship's input, and information transfer. It includes discussions on configuration, operation and maintenance of these systems. DOD Instruction 7000.14-R, paragraph 0716, prescribes the methods that will be used to determine the price of DOD publications when they are sold to foreign military sales (FMS) customers. The Instruction includes publication pricing factors that shall be included in the development of FMS prices for paper publications. When technical data was maintained and distributed primarily by paper form, pricing the product to recover the associated costs was a relatively reasonable and reliable process. As we transition from paper to electronic data encompassed in various media and arrangements, the costs associated with this migration will differ considerably. As electronic storage and presentation of digital data becomes more interactive with the internet, the association between the existing practices and advanced products become more contradictory. The historical pricing procedures will no longer reflect the costs that need to be recovered. In this era of digital data and computerized integration, new technological advances have increased the demand and cost of services associated with digitization of paper documents. With the introduction of these new technologies, various fees associated with this transformation have to be incorporated into the pricing structure that currently exists. The problem that exists with the incorporation of these fees is the lack of long-term historical data due to relative infancy of the goods and services linked to this technology. The primary objective of this project is to determine accurate and justifiable pricing for the foreign military sale of electronic technical manuals under the guiding principles of DOD Instruction 7000.14-R. is for the abstract. This report summarizes the findings from both Army and Navy evaluations of the Personal Electronics Aid for Maintenance (PEAM), which is a prototype electronic technical information delivery system capable of displaying step-by-step procedural information to technicians during their performance of maintenance tasks. The results

demonstrate a nearly 6:1 advantage of PEAM (and its emulation on other microcomputers over traditional, paper-based approaches to troubleshooting tasks, as well as a nearly 2:1 advantage in other tasks. The advantage was measured in terms of average errors per task. The report offers a set of enhanced functional characteristics based on lessons learned and supports electronic technical information delivery as a system for potentially reducing maintenance errors. Keywords: Maintenance; Maintenance aid; Job performance aid; Job aids; Electronic delivery; Technical information; Joint service. Abstract: "This annotated bibliography is a collection of relevant literature for researchers, designers, and developers of advanced Interactive Electronic Technical Manuals (IETMs). It focuses especially on natural language dialog and speech recognition for use in tutoring, training, and performance aiding systems to support military or civilian technicians or mechanics engaged in inspection, diagnosis, or repair of aircraft, ships, etc. Books, articles, and standards documents are briefly described and evaluated to provide professionals with an efficient means to identify resources for use in IETM development, natural language dialog prototyping, and evaluation of such systems." The report summarizes recent activities in the Department of Defense and in the US Navy, Army, and Air Force to establish Service use of Interactive Electronic Manuals (IETMs) as replacements for paper Technical Manuals for logistic support of military equipment. the IETM concept is described, and an overview is provided of five IETM acquisition Specifications and Military Handbooks developed by the Tri-Service Interactive Electronic Technical Manual Working Group established in 1989 by the Defense Quality and Standardization Office. One of these five draft documents, MIL-HDBK-EDS (Navy), Electronic Display System (EDS) for Interactive Electronic Technical Manulated IETM acquisition Specifications and Handbooks. Author. (kr). ADP 6-22 describes enduring concepts of leadership through the core competencies and attributes required of leaders of all cohorts and all organizations, regardless of mission or setting. These principles reflect decades of experience and validated scientific knowledge.An ideal Army leader serves as a role model through strong intellect, physical presence, professional competence, and moral character. An Army leader is able and willing to act decisively, within superior leaders' intent and purpose, and in the organization's best interests. Army leaders recognize that organizations, built on mutual trust and confidence, accomplish missions. Every member of the Army, military or civilian, is part of a team and functions in the role of leader and subordinate. Being a good subordinate is part of being an effective leader. Leaders do not just lead subordinates-they also lead other leaders. Leaders are not limited to just those designated by position, rank, or authority. Offers a systematic approach to technical writing for engineers and other technical professionals, while providing enough flexibility to allow their creativity to flow. Shows how to break down a large technical writing project into sub-tasks, just as any large technical design problem would be solved. Forbes gives a wealth of tips and techniques on outlining, and discusses how to write data sheets, application notes, magazine articles, speeches (including ``forum" speeches and technical presentations for small groups), and technical manuals of all types. Includes techniques for completing projects when time is short. Improvements in technology, especially in computer science, in the last two decades have made it possible, and preferable to develop digital technical manuals. A digital manual, which is called an Interactive Electronic Technical Manual (IETM), is a package of information required for the diagnosis and maintenance of a weapon systems, optimally arranged and formatted for interactive screen presentation to the end-user. Being the largest organization in the U.S., the Department of Defense has pioneered in the development of IETM concept as well as in the establishment of its standards. There have been many researches done about different IETM applications and their effectiveness in DoD environment. However, little research has been done in the area of how an IETM is developed in a civilian environment. This thesis identifies what it takes to develop an IETM in a civilian environment and investigates

differentiating factors of commercial industry. In addition to the identification of IETM development steps in a case study, IETM standards, IETM development specifications in industry as well as in military, problems areas in today's IETM development environment, and DoD classification of IETMs are also discussed. Designed to be the primary desk reference for acquisition personnel who will be required to acquire, develop, deliver and manage Interactive Electronic Technical Manuals (IETM). Incorporates the status of existing/planned DOD and Service-unique policy guidance. Discusses current and projected technologies related to the production of IETMs. Analyzes the relationship between IETMs and training. Addresses delivery vehicles, including the World Wide Web (WWW). In a joint effort, the U.S. Navy and Air Force have tested under operational conditions a series of improved techniques developed under the Air Force Integrated Maintenance Information System (IMIS) program for delivering maintenance technical information to squadron technicians. These improvements included use of a portable maintenance aid (PMA) for technical information display. In this test, carried out in an F/A-18 fighter squadron at Marine Corps Air Station, Beaufort, South Carolina each of 16 technicians performed six fault-isolation tasks, three supported by an Interactive Electronic Technical Manual (IETM) displayed on a PMA, and three supported by conventional paper- based work package (WP) technical manual (TM). This report presents a comparison of technician performance supported by the ITEM/PMA combination with performance using conventional paper TMs. The performance data collected during the test showed considerable reduction in performance times for complex multiple fault isolations and maintenance errors, when technicians used the IETM/PMA combination. Also, technician-preference data based on questionnaires, showed strong support for virtually all IETM/PMA features. Technicians also made suggestions for improving the IETM and the PMA. Automated Technical Manuals; Interactive Electronic Technical Manuals (IETMs), Portable Maintenance Aid, Portable Delivery Device, Integrated Maintenance Information S (MS), F/A-18 Aircraft. The report summarizes recent activities in the Department of Defense and in the US Navy, Army, and Air Force to establish Service use of Interactive Electronic Technical Manuals (IETMs) as replacements for paper Technical Manuals for logistic support of military equipment. The IETM concept is described, and an overview is provided of five IETM acquisition Specifications and Military Handbooks developed by the Tri-Service Interactive Electronic Technical Manual Working Group established in 1989 by the Defense Quality and Standardization Office. One of these five draft documents, MIl-M-IETMQA, Quality Assurance (QA) Program Requirements for Interactive Electronic Technical Manuals (IETMS) and Associated Technical Information, 1 Jun 1990, is described and presented. (Four other companion Reports have been prepared to introduce and describe the four related IETM acquisition Specifications and Handbooks. (rrh). The scope of this document is limited to addressing Interactive Electronic Technical Manuals (IETMs) likely being maintained in Standard Generalized Markup Language (SGML) or Extensible Markup Language (XML). These IETMs are to be viewed with a standard browser such as Microsoft's Internet Explorer or Netscape's Navigator and delivered to run under Advanced Technical Information Support (ATIS), an intra/internet, or a combination thereof. AR 25-30 06/03/2015 ARMY PUBLISHING PROGRAM , Survival Ebooks The purpose of this handbook is to outline issues associated with achieving IETM interoperability through the use of a common user interface, i.e., a browser. Not all areas of interoperability, i.e., data interoperability are covered in this handbook. The guidance contained herein specifically covers issues that may allow an IETM user access to IETMs via a common interface regardless of where, by who, and how the IETM was created. Written for an audience with a general interest in readability studies, linguistics and technical writing, this book is primarily targeted at those who have a special interest in the design and use of utility texts and how these texts are received and

understood by a multifaceted audience. Military demolitions are the destruction by fire, water, explosive, and mechanical means of areas, structures, facilities, or materials to accomplish a military objective. The U.S. Army Explosives and Demolitions Handbook is a guide to the use of explosives in the destruction of military obstacles from the Department of the U.S. Army. This guide includes information on types, characteristics, and uses of explosives and auxiliary equipment; preparation, placement, and firing of charges; safety precautions; handling, transportation, and storage of explosives; deliberate and hasty demolition methods; and much more. Applicable to nuclear and nonnuclear warfare, and having offensive and defensive uses, the knowledge one will come away with from reading this handbook is invaluable. Engineer Field Data is designed as an authoritative reference for the military engineer. It covers everything from concreting to improvised munitions!