

ENGINEER DOCTRINE UPDATE

**U.S. Army Maneuver Support Center of Excellence
Capabilities Development and Integration Directorate
Concepts, Organizations, and Doctrine Development Division
Doctrine Branch, Engineer Division**

Publication Number	Title	Date	Description (and Current Status)
Publications Currently Under Revision			
FM 3-34	<i>Engineer Operations</i>	Pending (Apr 09)	This is the engineer keystone manual. It encompasses all engineer doctrine; integrates the three engineer disciplines of combat, general, and geospatial engineering; and addresses engineer operations across the entire spectrum of operations. Status: Revising manual to incorporate the engineer lines of support framework. Estimated publishing date is 4QFY11.
Combat Engineering			
FM 3-90.4 (*FM 3-34.2) (*FM 3-90.12)	<i>Combined Arms Mobility Operations</i>	Pending (Aug 00)	This is a full revision, to include the renaming and renumbering of FM 3-34.2, <i>Combined Arms Breaching Operations</i> , and FM 3-90.12, <i>Combined Arms Gap Crossing</i> . Changes in the force structure have required adjustment of the tactics, techniques, and procedures (TTP) associated with breaching and clearance operations. The Marine Corps is dual-designated on this manual, which will replace their Marine Corps Warfighting Publication (MCWP) 3-19.3, <i>Marine Air-Ground Task Force (MAGTF) Breaching Operations</i> . Status: To be published 2QFY11.
ATTP 3-34.55 (FM 5-103)	<i>Survivability</i>	Pending (Jun 85)	This is a full revision of FM 5-103, <i>Survivability</i> . Status: Initial Draft staffing in 3QFY11.
General Engineering			
TM 3-34.48 1/2 (*FM 5-430-00-1 & 5-430-00-2)	<i>Design of Theater of Operations Roads, Airfields and Helipads</i>	Pending (Aug 94) (Sep 94)	This manual will serve as a reference for engineer planners in support of joint and theater operations in the design of roads, airfields, and helipads. This manual is currently dual-designated with the Air Force. The Air Force (as well as the Navy and Marine Corps) plans to adopt the new manual also. Status: Estimated publishing date is 3QFY11.
TM 3-34.41	<i>Construction Planning and Estimating</i>	NEW	This new manual is being produced by the Navy, in coordination with the Army and Air Force. The manual will provide the TTP and planning factors for conducting construction planning at the crew leader level. The manual will also provide useful expeditionary construction planning factors for use by planners at all levels. Status: Estimated publishing date is 3QFY11.
TM 3-34.43 (*FM 3-34.451) (*FM 5-472)	<i>Materials Testing</i>	Pending (Dec 92)	This manual will provide technical information for obtaining samples and performing engineering tests and calculations on soils, bituminous paving mixtures, and concrete. For use in military construction. The test procedures and terminology will conform to the latest methods and specifications of the American Society for Testing and Materials (ASTM), the American Concrete Institute (ACI), and the Portland Cement Association (PCA), with alternate field testing methods and sampling techniques when complete lab facilities are unavailable or impractical to use. The Marine Corps and Air Force plan to adopt this manual as well. Status: Estimated publishing date is 3QFY11.

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General Engineering (continued)			
TM 3-34.65 1/2 (*FM 3-34.465)	<i>Quarry Operations</i>	Pending (Mar 05)	This manual outlines the methods and procedures used in the exploration for and operation of pits and quarries. It provides information on equipment required for operating pits and quarries and for supplying crushed mineral products, but does not cover the operation of the stated types of equipment. This is a collaborative effort with the Navy and Air Force and includes the newest technologies and current practices. There will be a focused staffing only for this manual. Status: Preparing Volume II. Initial Draft staffing of both volumes 2QFY11.
TM 3-34.49 (*FM 5-484)	<i>Multi-Service Well Drilling Operations</i>	Pending (Mar 94)	This manual is a guide for planning, designing, and drilling wells. It focuses on techniques and procedures for installing wells and includes expedient methods for digging shallow water wells, such as hand-dug wells. This collaborative effort with the Navy, Air Force, and Marine Corps includes the newest technologies, current practices, and revised formulas. Status: Estimated publishing date is 2QFY11.
TM 3-34.56	<i>Waste Management</i>	New	This manual addresses issues not currently integrated into FM 3-34.5, <i>Environmental Considerations</i> . The manual will address the role of waste management in support of deployed forces, as well as the integration of waste management throughout the operations process, including its critical linkage to the composite risk management process. Status: Estimated publishing date is 2QFY11.

Notes: Current engineer publications can be accessed and downloaded in electronic format from the Reimer Digital Library at <http://www.adtdl.army.mil> or the MSKN Web site at <https://www.us.army.mil/suite/page/500629>. The manuals discussed in this article are currently under development and/or recently published. Drafts may be obtained during the staffing process or by contacting the Engineer Doctrine Branch at commercial 573-563-0003, DSN 676-0003, or douglas.merrill@us.army.mil or contact commercial 573-563-2717, DSN 676-2717, or brian.davis6@us.army.mil. The development status of these manuals was current as of 25 Jan 10.

*Publications shown inside parenthesis with an asterisk beside the number indicate the current published number, but that number will be superseded by the new number at the beginning of the listing. Multiple manuals in parenthesis will indicate consolidation into one manual.

Due to the doctrine reengineering effort, some field manuals are being realigned as general subject technical manuals (TMs). These manuals will be numbered as TMs. Field manuals (FMs) dealing with Army tactics, techniques, and procedures (ATTP) will be renumbered as ATTPs.