



**FM 1-02 (FM 101-5-1)  
MCRP 5-12A**

**OPERATIONAL TERMS  
AND GRAPHICS**

**SEPTEMBER 2004**

**DISTRIBUTION RESTRICTION:**  
Approved for public release; distribution is unlimited.

**HEADQUARTERS  
DEPARTMENT OF THE ARMY**

**This page intentionally left blank.**

**\*FM 1-02 (FM 101-5-1)**  
**MCRP 5-12A**

Field Manual  
No. FM 1-02 (FM 101-5-1)

Headquarters  
Department of the Army  
Washington, DC

MCRP 5-12A

Headquarters  
Marine Corps Combat Development Command  
Department of the Navy  
Headquarters, United States Marine Corps  
Washington, DC

21 September 2004

# Operational Terms and Graphics

## Contents

	Page
	PREFACE..... vi
	INTRODUCTION ..... vii
Chapter 1	OPERATIONAL TERMS..... 1-1
Chapter 2	OPERATIONAL ACRONYMS, ABBREVIATIONS, AND COUNTRY CODES ..... 2-1
	Section I – Acronyms and Abbreviations ..... 2-1
	Section II – Two-Letter Geographical Entity Codes ..... 2-31
Chapter 3	MULTI-SERVICE BREVITY CODES, PROCEDURE WORDS, AND TACTICAL TASKS ..... 3-1
	Section I – Brevity Codes ..... 3-1
	Section II – Procedure Words (Prowords) ..... 3-25
	Section III – Tactical Mission Tasks ..... 3-25
Chapter 4	MILITARY SYMBOLS..... 4-1
	Purpose ..... 4-1
	Orientation of Military Symbols..... 4-2
	Composition of Military Symbols ..... 4-2
	Basic Rules for Building Symbols..... 4-10
Chapter 5	UNIT SYMBOLS ..... 5-1
	Composition of Unit Symbols ..... 5-1
	Unit Symbol Modifier Fields..... 5-3
	Locating Unit Symbols..... 5-41

**Distribution Restriction:** Approved for public release; distribution is unlimited.

\*This publication supersedes FM 101-5-1/MCRP 5-12A, 30 September 1997.

<b>Chapter 6</b>	<b>EQUIPMENT SYMBOLS</b> .....	<b>6-1</b>
	Orientation of Equipment Symbols .....	6-1
	Composition of Equipment Symbols.....	6-1
	Building Equipment Symbols .....	6-2
	Size and Range Indicators.....	6-30
<b>Chapter 7</b>	<b>GRAPHIC CONTROL MEASURES</b> .....	<b>7-1</b>
	Overlays .....	7-1
	Colors.....	7-1
	Orientation of Control Measures .....	7-2
	Building Graphic Control Measures .....	7-2
	Fire Support Coordinating Measures.....	7-9
	Targets .....	7-10
	Nuclear, Biological, and Chemical Attacks/Events .....	7-10
<b>Chapter 8</b>	<b>INSTALLATION SYMBOLS</b> .....	<b>8-1</b>
	Composition of Installation Symbols.....	8-1
	Installation Symbol Modifier Fields .....	8-2
<b>Chapter 9</b>	<b>STABILITY OPERATIONS AND SUPPORT OPERATIONS SYMBOLS</b> .....	<b>9-1</b>
	Composition of Stability Operations and Support Operations Symbols.....	9-1
	Stability Operations and Support Operations Symbol Modifier Fields.....	9-2
<b>Appendix A</b>	<b>TACTICAL MISSION GRAPHICS</b> .....	<b>A-1</b>
<b>Appendix B</b>	<b>EXAMPLES OF MILITARY SYMBOLS</b> .....	<b>B-1</b>
<b>Appendix C</b>	<b>EXAMPLES OF THE USE OF MILITARY SYMBOLS</b> .....	<b>C-1</b>
<b>Appendix D</b>	<b>MILITARY DECISIONMAKING PROCESS GRAPHICS</b> .....	<b>D-1</b>
	Status and Assessment Charts.....	D-1
	Combat Effectiveness Graphics.....	D-3
	Task Organization Composition Graphics .....	D-4
	Decision Graphics.....	D-7
	<b>BIBLIOGRAPHY</b> .....	<b>Bibliography-1</b>
	<b>INDEX OF SYMBOLS</b> .....	<b>Index of Symbols-1</b>

## Figures

Figure 4-1. Components of a Military Symbol.....	4-2
Figure 4-2. Field Positions for Text or Graphic Modifiers .....	4-5
Figure 5-1. Unit Symbol Components.....	5-1
Figure 5-2. Unit Symbol Modifier Fields.....	5-3
Figure 5-3. Examples of Command Symbols .....	5-34
Figure 5-4. Examples of Task Forces .....	5-34
Figure 5-5. Examples of Reinforced, Reduced, and Reinforced and Reduced.....	5-35
Figure 5-6. Offset and Multiple Unit Locations.....	5-42
Figure 5-7. Offset Headquarters and Multiple Headquarters Locations .....	5-42
Figure 6-1. Equipment Symbol Components.....	6-1

Figure 6-2. Equipment Symbol Modifier Fields ..... 6-4

Figure 7-1. Boundary Modifier Fields ..... 7-2

Figure 7-2. Examples of Friendly Lateral Boundaries ..... 7-3

Figure 7-3. Example of a Friendly Rear Boundary ..... 7-4

Figure 7-4. Example of a Friendly Forward Boundary..... 7-4

Figure 7-5. Examples of Hostile Lateral Boundaries ..... 7-4

Figure 7-6. Line Modifier Fields ..... 7-6

Figure 7-7. Example of a Friendly Line of Departure on a Phase Line ..... 7-6

Figure 7-8. Area Modifier Fields ..... 7-7

Figure 7-9. Examples of Friendly Assembly Area and Pickup Zone ..... 7-7

Figure 7-10. Point Modifier Fields..... 7-8

Figure 7-11. Examples of Friendly Ammunition Transfer Point and Class VIII Supply Point..... 7-9

Figure 7-12. Example of a Friendly FSCL on a Phase Line ..... 7-10

Figure 7-13. Example of a Friendly No-Fire Area..... 7-10

Figure 7-14. Target Labeling Fields..... 7-10

Figure 7-15. Nuclear Attack/Event..... 7-11

Figure 7-16. Biological Event..... 7-11

Figure 7-17. Chemical Event ..... 7-11

Figure 8-1. Installation Symbol Components ..... 8-1

Figure 8-2. Installation Symbol Modifier Fields ..... 8-3

Figure 9-1. Stability Operations and Support Operations Symbol Components..... 9-1

Figure 9-2. Stability Operations and Support Operations Symbol Modifier Fields..... 9-3

Figure A-1. Example of Decision Graphics and Tactical Mission Graphics ..... A-7

Figure B-1. Airborne Infantry Divisions..... B-1

Figure B-2. Air Assault Infantry Divisions ..... B-2

Figure B-3. Armored Divisions..... B-2

Figure B-4. Mechanized Infantry Divisions..... B-2

Figure B-5. Light Infantry Divisions..... B-3

Figure B-6. Infantry Divisions ..... B-3

Figure B-7. Marine Divisions ..... B-3

Figure B-8. Stryker Brigade Combat Teams ..... B-4

Figure B-9. Supply Sites..... B-4

Figure B-10. Combat Service Support Units ..... B-5

Figure B-11. Unit Symbols with Labeling Fields..... B-6

Figure B-12. Equipment Symbols with Labeling Fields..... B-7

Figure B-13. Installation Symbols with Labeling Fields..... B-8

Figure B-14. Stability Operations and Support Operations Symbols with Labeling Fields ..... B-8

Figure C-1. Contiguous Areas of Operations ..... C-1

Figure C-2. Noncontiguous Areas of Operations ..... C-2

Figure C-3. Stability Operations and Support Operations..... C-2

Figure C-4. Combat Service Support Operations..... C-3

Figure D-1. Example of Bar Type Status Chart..... D-2

Figure D-2. Example of a Gumball Status Chart..... D-3  
 Figure D-3. Example of Combat Effectiveness Chart ..... D-4  
 Figure D-4. Unit Symbol for Task Force 2-2 ..... D-5  
 Figure D-5. Example of a Task Organization Composition Graphic..... D-5  
 Figure D-6. Example of a Company Team Decision Graphic..... D-8  
 Figure D-7. Example of a Task Force Decision Graphic ..... D-8  
 Figure D-8. Example of a Brigade Decision Graphic ..... D-9

## Tables

Table 1-1. Seven Levels of MOPP..... 1-127  
 Table 4-1. Frame Shapes for All Affiliations and Dimensions..... 4-3  
 Table 4-2. Status of Symbols ..... 4-4  
 Table 4-3. Color Defaults ..... 4-4  
 Table 4-4. Descriptions of Fields for Text or Graphic Modifiers for Military Symbols ..... 4-6  
 Table 5-1. Building Unit Symbols..... 5-2  
 Table 5-2. Descriptions of Fields for Text or Graphic Modifiers for Unit Symbols ..... 5-4  
 Table 5-3. Field A: Branch and Functional Symbols..... 5-6  
 Table 5-4. Field A: Mobility and Capability Modifiers..... 5-26  
 Table 5-5. Field A: Special Operations Forces ..... 5-30  
 Table 5-6. Field B: Echelon..... 5-33  
 Table 5-7. Field AA: Named Command and Control Headquarters ..... 5-36  
 Table 5-8. Field AJ: Headquarters Element..... 5-39  
 Table 5-9. Multifunctional Combat Service Support Units ..... 5-40  
 Table 6-1. Building Equipment Symbols with Frames ..... 6-2  
 Table 6-2. Building Equipment Symbols Without Frames ..... 6-3  
 Table 6-3. Descriptions of Fields for Text or Graphic Modifiers for Equipment Symbols ..... 6-4  
 Table 6-4. Field A: Equipment Types..... 6-7  
 Table 6-5. Field R: Mobility Indicator ..... 6-29  
 Table 6-6. Standards for Size and Range Indicators by Equipment Systems..... 6-31  
 Table 7-1. Description of Fields for Text or Graphic Modifiers for Boundaries..... 7-3  
 Table 7-2. Unit Abbreviations..... 7-5  
 Table 7-3. Description of Fields for Text or Graphic Modifiers for Lines ..... 7-6  
 Table 7-4. Description of Fields for Text or Graphic Modifiers for Areas..... 7-7  
 Table 7-5. Description of Fields for Text or Graphic Modifiers for Points ..... 7-9  
 Table 7-6. Description of Fields for Text or Graphic Modifiers for Nuclear, Biological, and  
                   Chemical Attacks/Events..... 7-11  
 Table 7-7. Examples of Maneuver Control Measures ..... 7-12  
 Table 7-8. Examples of Airspace Control Measures ..... 7-19  
 Table 7-9. Examples of Deception Control Measures ..... 7-23

Table 7-10. Examples of Offensive Control Measures..... 7-28

Table 7-11. Examples of Special Maneuver Control Measures ..... 7-33

Table 7-12. Examples of Fire Support Coordinating Measures ..... 7-36

Table 7-13. Examples of Command and Control Measures ..... 7-41

Table 7-14. Examples of Mobility/Counter mobility/Survivability Control Measures ..... 7-45

Table 7-15. Examples of Survivability Control Measures..... 7-55

Table 7-16. Examples of Nuclear, Biological, and Chemical Control Measures..... 7-56

Table 7-17. Examples of Combat Service Support Control Measures..... 7-62

Table 8-1. Building Installation Symbols ..... 8-2

Table 8-2. Graphic Modifiers for Installation Symbols..... 8-3

Table 8-3. Field A: Installation Function ..... 8-6

Table 9-1. Building Stability Operations and Support Operations Symbols..... 9-2

Table 9-2. Descriptions of Fields for Text or Graphic Modifiers for Stability Operations and Support Operations Symbols..... 9-3

Table 9-3. Field AA: Stability Operations and Support Operations Activities, Locations, and Nonmilitary Organizations..... 9-6

Table A-1. Examples of Tactical Mission Graphics ..... A-2

## Preface

This manual is a dual-Service US Army and US Marine Corps publication introducing new terms and definitions and updating existing definitions as reflected in the latest editions of Army field manuals and Marine Corps doctrinal, warfighting, and reference publications. It complies with DOD Military Standard 2525. When communicating instructions to subordinate units, commanders and staffs from company through corps should use this manual as a dictionary of operational terms and military graphics.

This manual incorporates changes in joint terminology and definitions as reflected in JP 1-02 (as amended through June 2003) and provides a single standard for developing and depicting hand-drawn and computer-generated military symbols for situation maps, overlays, and annotated aerial photographs for all types of military operations. The symbology chapters of this manual focus primarily on land military symbols applicable for the Army and Marine Corps. In addition to terminology, this manual includes the following updated lists:

- Approved acronyms and abbreviations with their expansions.
- Two-letter country codes.
- Brevity codes and their meanings.
- Procedural words.
- Tactical tasks.

This manual applies to the Active Army, the US Army Reserves, the Army National Guard and the US Marine Corps.

This manual implements the following international agreements:

- STANAG 3680/AAP-6 (2003), *NATO Glossary of Terms and Definitions*.
- AAP-15, *NATO Glossary of Abbreviations Used in NATO Documents and Publications*.
- STANAG 1059, *National Distinguishing Letters for Use by NATO Armed Forces*, where appropriate for Army- and/or Marine Corps-specific usage.
- STANAG 2019/APP-6A, *Military Symbols For Land Based Systems*.
- QSTAG 509, *Military Symbols*.
- STANAG 2022, *Intelligence Reports*, for the evaluation ratings in annex A.
- STANAG 2961, *Classes of Supply of NATO Land Forces*, for reference and comparison with US classes of supply.

The proponent for this manual is Headquarters, US Army Training and Doctrine Command. Send written comments and recommendations on DA Form 2028 (*Recommended Changes to Publications and Blank Forms*) directly to Commander, US Army Combined Arms Center and Fort Leavenworth, ATTN: ATZL-CD (FM 1-02), 1 Reynolds Avenue (Building 111), Fort Leavenworth, KS 66027-1352. Send comments and recommendations by e-mail to [web-cadd@leavenworth.army.mil](mailto:web-cadd@leavenworth.army.mil). Follow the DA Form 2028 format or submit an electronic DA Form 2028.

Unless stated otherwise, masculine nouns or pronouns do not refer exclusively to men.



## Introduction

The terminology section of this manual is a compilation of doctrinally-accepted definitions that have been taken from approved manuals. One Army field manual is cited as the proponent or reference for each definition. (NOTE: As the US Army is in the process of changing the numbering system for its field manuals, the cited manual number reflects the number that was in effect at the time FM 1-02 was approved.) The proponent manual for all Marine Corps definitions in this publication is MCRP 5-12C, *Marine Corps Supplement to the Department of Defense Dictionary of Military and Associated Terms*.

Terminology entries in this manual fall into the following five categories:

- Definitions that are applicable to the US Army only. The definition is preceded by “(Army)” and followed by the proponent US Army field manual in parentheses:

**situational understanding** – (Army) The product of applying analysis and judgment to the common operational picture to determine the relationship among the factors of METT-TC. (FM 3-0)

- Definitions that are applicable to the US Marine Corps only. The definition is preceded by “(Marine Corps)”:

**situational awareness** – (Marine Corps) Knowledge and understanding of the current situation which promotes timely, relevant, and accurate assessment of friendly, enemy, and other operations within the battlespace in order to facilitate decisionmaking. An informational perspective and skill that fosters an ability to determine quickly the context and relevance of events that are unfolding.

- Definitions that are applicable to both the US Army and US Marine Corps. The definition follows the term directly, and the proponent Army manual follows the definition:

**actions on contact** – A series of combat actions, often conducted simultaneously, taken upon contact with the enemy to develop the situation. (FM 3-90)

In some cases the Army and Marine Corps have agreed on a compromise definition for a particular term. This definition does not appear in either Service’s manuals, but will be incorporated into them when the appropriate manuals are revised. In such cases the definition is preceded by “(Army/Marine Corps)” and followed by the proponent Army manual:

**route reconnaissance** – (Army/Marine Corps) A directed effort to obtain detailed information of a specified route and all terrain from which the enemy could influence movement along that route. (FM 3-90)

- Joint and/or NATO terms whose definitions are applicable to the Army and Marine Corps as well. Joint and NATO definitions are reproduced exactly as they appear in JP 1-02 (12 April 2001, as amended through 05 June 2003) and AAP-6 (2003) respectively. The definition is preceded by one of four possible parenthetical notations (see below). “See FM

XX” follows the definition, signifying that the indicated manual is the reference manual for Army-specific usage:

- (DOD): the term is a joint term.

**persistent agent** – (DOD) A chemical agent that, when released, remains able to cause casualties for more than 24 hours to several days or weeks. See FM 3-9.

- (NATO): the term is a NATO term.

**reference box** – (NATO) The identification box placed in the margin of a map or chart which contains the series designation, sheet number and edition number in a readily identifiable form. See FM 3-25.26.

- (DOD, NATO): the term is both a joint and NATO term, and the joint and NATO definitions are virtually the same (with minor differences noted).

**combat power** – (DOD, NATO) The total means of destructive and/or disruptive force which a military unit/formation can apply against the opponent at a given time. See FM 3-0.

**state of readiness – state 2 - armed** – (DOD, NATO) The state of a demolition target in which the demolition charges are in place, the firing and priming circuits are installed and complete, and the charge is ready for immediate firing. [Note: the NATO definition does not include “and the charge is.”] See FM 5-250.

- (DOD)... [Note: see AAP-6]: the term is both a joint and NATO term. The definitions are similar in meaning, but the wording is different. If the reader requires the exact NATO definition, he should consult AAP-6 (most current edition), *NATO Glossary of Terms and Definitions*.

**immediate decontamination** – (DOD) Decontamination carried out by individuals immediately upon becoming contaminated. It is performed in an effort to minimize casualties, save lives, and limit the spread of contamination. [Note: See AAP-6.] See FM 3-5.

- Joint/NATO terms that are used by the Army/Marine Corps, but whose definitions are either inadequate for or not applicable to specific Army/Marine Corps usage. Both the joint and NATO definitions and the Service definitions are given. Where Army and Marine Corps definitions differ from each other, both are provided. The Army definition is followed by the proponent manual.

**seize** – (DOD) To employ combat forces to occupy physically and control a designated area. (Army) A tactical mission task that involves taking possession of a designated area using overwhelming force. (FM 3-90) (Marine Corps) To clear a designated area and obtain control of it.

If the term is a joint/NATO term, but no Army field manual is referenced, then this indicates that the Marine Corps has pronency for the term and definition:

**action phase** - (DOD) In an amphibious operation, the period of time between the arrival of the landing forces of the amphibious force in the operational area and the accomplishment of their mission. See also **amphibious force**; **amphibious operation**; **landing force**; **mission**.

In addition, there are two further descriptors that may appear after a definition:

- “Also called”: If the term has an accepted abbreviation or acronym, the abbreviation or acronym appears bolded after the definition, preceded by “Also called”:

**passage point** – A specifically designated place where the passing units will pass through the stationary unit. Also called **PP**. (FM 3-90)

- “See also”: If there are any related terms defined elsewhere in the manual, they are cross-referenced at the end of the definition as bolded terms preceded by “See also”:

**hostile criteria** – Description of conditions under which an aircraft or a vehicle may be identified as hostile for engagement purposes. See also **hostile acts**; **rules of engagement**. (FM 27-10)

The symbology section is broken down into chapters dealing with unit symbols, equipment symbols, graphic control measures, installation symbols, and stability operations and support operations symbols. Each of these chapters provides detailed requirements for composing and constructing its associated symbols and control measures. While the manual does not include every possible symbol for every possible context, the rules for building a specific set of military symbols allow enough flexibility for users to create any symbol to meet their operational needs.

This manual contains a compilation of graphic control measures. This revision includes information on building symbols and using graphics omitted in the 1997 version that appeared in earlier versions of military symbology manuals. It includes a link between terms and symbols with the cross-referenced terms, including the proponent manual that provides the description for the usage of the graphic control measures. All graphic control measures in this manual are linked to doctrine.