

Materiel Readiness Quick Reference Guide



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This Quick Reference offers an expedient tool MAGTF leadership can employ to better understand key materiel readiness terminology. It represents a collaborative product from the Logistics Operations School and Ground Supply School, of the Marine Corps Combat Service Support Schools, with emphasis on Major Command and Major Subordinate Command terms and performance metrics. This Quick Reference is designed to augment the Deputy Commandant for Installations and Logistics Commander's Supply Management Handbook and Commander's Maintenance Management Handbook. It succinctly incorporates definitions of materiel readiness terms, lays out materiel readiness hierarchies, and offers commanders tools to help measure performance.

Semper Fidelis,

A handwritten signature in black ink, appearing to read "David Jones". The signature is stylized with a large loop at the beginning and a long horizontal stroke at the end.

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Table of Contents

Classes of Supply	<u>1</u>
Equipment Allowance Types	<u>2</u>
Stores Account Codes (SAC)	<u>3</u>
GCSS-MC Accountability and Readiness.	<u>5</u>
MARES Supply (“S”) and Readiness (“R”) Ratings.	<u>6</u>
Fiscal	<u>8</u>
Missing Loss Stolen Recovered (MLSR) Reporting System	<u>9</u>
FSMAO Quarterly Analysis Summary	<u>10</u>
Maintenance Management.	<u>11</u>
Recommended Major Command Materiel Readiness Dashboard Topics	<u>16</u>
Supply & Maintenance Publications	<u>17</u>

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Classes of Supply

Classes

Symbols

Subclasses

CLASS I

Subsistence



A - NONPERISHABLE
C - COMBAT RATIONS
R - REFRIGERATED
S - NON REFRIGERATED
W - WATER

CLASS II

Clothing, individual eqpt, tools, admin. supplies



A - AIR
B - GROUND SUPPORT MATERIEL
E - GENERAL SUPPLIES
F - CLOTHING
G - ELECTRONICS
M - WEAPONS
T - INDUSTRIAL SUPPLIES

CLASS III

Petroleum, oils lubricants



A - POL FOR AIRCRAFT
W - POL FOR SURFACE VEHICLES
P - PACKAGED POL

CLASS IV

Construction materiel



A - CONSTRUCTION
B - BARRIER

CLASS V

Ammunition



A - AIR DELIVERY
W - GROUND

CLASS VI

Personal demand items



A - PERSONAL DEMAND ITEMS
M - PERSONAL AND OFFICIAL MAIL
P - RATION SUPPLEMENTARY SUNDRY PACK

CLASS VII

Major end items; racks, pylons, tracked vehicles, etc.



A - AIR
B - GROUND SUPPORT MATERIEL
D - ADMIN. VEHICLES
G - ELECTRONICS
K - TACTICAL VEHICLES
L - MISSILES
M - WEAPONS
N - SPECIAL WEAPONS
T - INDUSTRIAL MATERIEL
X - AIRCRAFT ENGINES

CLASS VIII

Medical materiel



A - MEDICAL MATERIEL
B - BLOOD/FLUIDS

CLASS IX

Repair parts



A - AIR
B - GROUND SUPPORT MATERIEL
D - ADMIN. VEHICLES
G - ELECTRONICS
K - TACTICAL VEHICLES
L - MISSILES
M - WEAPONS
N - SPECIAL WEAPONS
T - INDUSTRIAL MATERIEL
X - AIRCRAFT ENGINES

CLASS X

Materiel for nonmilitary programs



X - AIRCRAFT ENGINES

Equipment Allowance Types

The Table of Authorized Materiel lists types 1, 2, and 3 materiel, including subsistence, petroleum, oil, and lubricants by Table of Authorized Materiel Control Numbers (TAMCN).

Commodity	Type 1	Type 2	Type 3
Definition	<ul style="list-style-type: none"> -Mission required equipment. -Established and reflected in TFSMS. -Must be adhered to unless obsolete, yet to be fielded, or the unit is supported by a regional issue point for the equipment listed. -Allowance adjustments must be made via a TOECR or higher established procedure. 	<ul style="list-style-type: none"> -As required items considered mission enhancing or supporting. -Allowances are determined by the unit commander except when directed by higher headquarters through publication of a stock list or other documentation. -Allowances must be reviewed annually and adjusted by the CO. 	<ul style="list-style-type: none"> -Maintaining this equipment at the using unit is authorized by higher headquarters in writing on a case-by-case basis as this equipment is specialized for particular conditions or situations (i.e. training allowance pool assets in support of a deployment). -Allowances are only valid for a calendar year and must be revalidated and authorized.
Communication -Electronics	A0001-A9999	H0001-H9999	T0001-T9999
Engineer	B0001-B9999	J0001-J9999	U0001-U9999
General Supply	C0001-C9999	K0001-K9999	V0001-V9999
Motor Transport	D0001-D9999	M0001-M9999	W0001-W9999
Ordnance	E0001-E9999	N0001-N9999	X0001-X9999
For HQMC Use	TAMCNs starting with F, G, R, Y and Z		
Petroleum	P0001-P9999		
Subsistence	S0001-S9999		

Stores Account Codes (SAC)

SAC-1	Items financed through the DoN stock fund account (SFA) (Marine Corps Division) or Operations and Maintenance, Marine Corps (O&M, MC), which are normally low-cost and high-demand, and are the budget responsibility of the requesting unit.
SAC-2	Secondary reparable items stocked stored, issued, procured, and repaired at the depot-level and financed through DoD Working Capital Funds. Customers submit funded requisitions and hold the budget responsibility when requesting SAC 2 items from the depot level.
SAC-3	Military equipment of major importance and major components which require detailed analysis and examination, financed through appropriation other than the DoNSFA (Marine Corps Division), and are not the requesting unit's budget responsibility.

Force/Activity Designators

Force/ Activity Designator	Urgency of Need Designator			Notes
	A	B	C	
I	01	04	11	
II	02	06	12	<p>-JCS/J-4 assigns and reviews F/ADs II through V to the military services, commanders of unified commands, and certain agencies.</p> <p>-The JCS has delegated to CMC the authority to assign and regulate the use of F/ADs II through V within the Marine Corps.</p>
III	03	06	13	<p>-OpFor commanders above the regimental level are authorized to assign F/ADs II through V.</p> <p>-When a change in an assigned force's, unit's, or activity's mission or status will result in an authorized change to a F/AD, these commanders are authorized to modify the F/AD up to a maximum of 180 days prior to the date of the mission or status change.</p>
IV	07	09	14	Commanders of subordinate establishment activities at the MSC level are authorized to assign F/ADs III through V, in consonance with the criteria established in MCO 4400.16H, to requisitioning activities under their commands.
V	08	10	15	

GCSS-MC Accountability and Readiness

Global Combat Support System-Marine Corps (GCSS-MC) provides near-real time information to improve asset visibility and data accuracy. It enables faster, better decision increasing the combat effectiveness of the MAGTF.

Install Base	A GCSS-MC tracking application for end items throughout their entire life cycle. The Install Base tracks serialized or non-serialized principle end items. All items on the Mechanized Allowance List are located in the Install Base inventory.
Perpetual Inventory	Maintains accountability of non-TAMCN items such as repair parts, secondary reparable items, and consumable items. Typically, using unit accounts are not authorized to maintain on-hand stock levels of these items unless deployed. Perpetual Inventory is often employed as a temporary holding location for TAMCN items during the processing of various transactions.

MARES Supply (“S”) and Readiness (“R”) Ratings

Equipment reporting to determine S-ratings and R-ratings are based on the unit’s ability to provide the assigned quantities and quality of equipment to accomplish its missions. S and R ratings may also be used as part of the conditions for an organization’s METs.

S-Rating: Equipment and Supplies. Units will calculate a S rating as of the time of the report and report the lowest S rating between the MEE and PE I calculations.

Equipment and Supplies (S-Rating)

Rule	S1	S2	S3	S4
<u>Mission Essential Equipment (MEE)</u> Total Service-selected mission-essential equipment possessed divided by prescribed wartime requirements [UTR]	≥ 90%	80-89%	65-79%	<65%
Total in Reporting Status aircraft possessed divided by prescribed wartime requirement (PMAA)	≥ 90%	80-89%	65-79%	<60%
<u>Support Equipment (PEI)</u> Total Service-selected principal end-items possessed divided by prescribed wartime requirement [UTR]	≥ 90%	80-89%	65-79%	<65%

R-Rating:

Equipment Condition. Units calculate R ratings as of the time of the report and will report the lowest R rating between the MEE and principle end item calculations. Applicable maintenance directives determine a mission capable status. Excess possessed equipment (quantities above the prescribed wartime requirement) will not be used in the R-rating.

Equipment Condition (R- Rating)				
Rule	S1	S2	S3	S4
<u>Mission Essential Equipment (MEE)</u>	≥ 90%	70-89%	60-69%	<60%
Total service-selected MEE available and "mission capable" divided by total possessed				
<u>Principal End Item (PEI)</u>	≥ 90%	70-89%	60-69%	<60%
Total service-selected principal end-items available and mission capable divided by the total possessed.				

Fiscal

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Action	Initiation of annual spending plan or CRA	Mid-Year Review	Budget Call	End of year Fiscal Closeout & Tri-annual review
Purpose	CRA is a congressional action that provides budget authority for specific ongoing activities prior to the passage of the annual Appropriation Act. HQMC will distribute operating budgets to major commands.	Address funding shortfalls and submit requests to the comptroller to provide increased funding.	-Submit funding requirements for the upcoming FY. (Consider factors such as mandatory reductions due to funding shortages, anticipated exercises to meet specified spending goals, leading up to a 100% obligation rate.)	Tri-annual reviews are done to correct errors, prevent reversions, and obtain a true status of funds.
Indicators				100% obligated

Missing Loss Stolen Recovered (MLSR) Reporting System

The MLSR reporting system was designed to:

- (1) Centrally track material losses.
- (2) Identify trends and areas where security enhancements may be required.

Types of Reporting Items That Require MLSR Reporting

Types of Reportable Items	MLSR Required
Arms, Ammunition, and Explosives (AA&E)	Yes
Marine Corps Automated Readiness Information Equipment	Yes
Precious Metals >\$100.00	Yes
CCI	Yes
Navy Funded Aviation Ordinance	Yes

Types of MLSR Reports

Types of MLSR Reports	
INITIAL	Submitted as soon as a loss or recovery of a sensitive item is discovered. Report is submitted within 48 hours of discovery.
FINAL	Submitted upon completion of all appropriate financial, administrative, investigative, survey, and disciplinary action. Final MLSR reports will be submitted within 45 days of the initial report.
SUPPLEMENTAL	Submitted to provide any additional pertinent information whenever a FINAL report has previously been submitted. FINAL and SUPPLEMENTAL reports must reference the INITIAL and any other associated reports submitted on the same incident by report number, Date Time Group (DTG), or correspondence identification
INITIAL/FINAL	Submitted when a command has recovered government property (from sources other than official supply or procurement channels) for which they were not previously responsible.

FSMAO Quarterly Analysis Summary

On a quarterly basis, each respective geographical Field Supply and Maintenance Analysis Office (FSMAO) will publish a Quarterly Analysis Summary that displays the overall results of for each MSC that was inspected during that quarter. Scores will be derived from Supply, Maintenance Management, Using Unit Account Manager, and Arms, Ammunitions, and Explosives procedures.

FSMAO Quarterly Analysis	Analysis Indicators		
Performance Summary	Compliant (Green): Overall score of 90% or above	Compliant-Degraded (Yellow): Overall score of 80% through 89%.	Non-Compliant (Red): Overall score of 79% or less.

Maintenance Management

Levels of Maintenance

Types of Maintenance	
Field Maintenance	Any maintenance that does not require depot maintenance capability and is performed by crew/operators and mechanics/technicians within Marine Corps organizations and activities, and/or by approved commercial/contract sources. Maintenance tasks performed within the Field LOM are categorized as organizational and intermediate.
Depot Maintenance	Actions taken on material or software involving the inspection, repair, overhaul, or the modification or reclamation (as necessary) of weapons systems, equipment end items, parts, components, assemblies, and sub-assemblies that are beyond field maintenance capabilities, and/or are authorized and directed by DC,I&L. Depot maintenance may also be leveraged to contribute to field maintenance efforts by providing overflow, on-site maintenance services, and technical assistance as appropriate to maintain enterprise materiel availability.

Field Level Maintenance Categories

Field Level Maintenance Categories	
Organizational	Maintenance production, scheduled or unscheduled, which is the responsibility of and performed by the using unit on table of equipment (T/E) and special allowance assigned equipment.
Intermediate	Maintenance tasks may require a higher level of technical training, specialized tools and/or facilities. It consists of a range of capabilities including modification, replacement, fabrication, component/subcomponent/assembly/ sub-assembly repair, calibration and repair of Test, Measurement and Diagnostic Equipment (TMDE), software maintenance, precision machining, welding, evacuation, disposal, salvage, and demilitarization of equipment or materiel.

Maintenance Reporting

Maintenance Reporting	
Reportable Equipment	MARES reportable equipment is defined as an item of equipment which is contained in a Marine Corps bulletin (MCBul) in the 3000 series. Before items can be included in this Bulletin, they must be principal end items that are 85 percent fielded Marine Corps-wide, to include the Reserves.
Mission Essential Equipment	Items designated as MEE are of such importance that they are subject to continuous monitoring and management at all levels of command. Items eligible for nomination as MEE items must be listed in the Joint Chiefs of Staff (JCS) Major Equipment (MEQPT) file. This JCS file is maintained by the CMC (POC). MEE items are designated by table of authorized material control number (TAMCN) in a MCBul in the 3000 series. MEE items may be low density equipment. Therefore, small changes in quantities possessed or operationally ready can lead to wide fluctuations in the unit's "S" and "R" ratings.
Equipment Readiness	The portion of the unit's equipment readiness or ability to perform its mission as determined by the condition of the equipment resources allocated to the unit. Equipment readiness will be maintained by replacing unserviceable equipment or restoring unserviceable equipment to a serviceable condition.
Equipment Readiness Ratings	The equipment readiness information is used to support the Defense Readiness Reporting System (DRRS) measured resource areas of equipment/supplies on hand "S" and equipment readiness "R" ratings reported by the unit in DRRS.

Maintenance Cycle Time

Maintenance Cycle Time	
Maintenance Cycle Time	The period of time equipment is inoperative and requires repair.
Maximum Maintenance Cycle time as it relates to intermediate maintenance	<p>End Items</p> <ul style="list-style-type: none">- 180 days for West/Mid-Pac units- 120 for continental United States (CONUS) units <p>Secondary Repairables</p> <ul style="list-style-type: none">- 90 days for West/Mid-Pac units- 60 days for CONUS units <p>The cycle time begins on the day the item is received at the IMA.</p>
Expiration of Maximum Maintenance Cycle Time	IMA will report items exceeding the maximum maintenance cycle time to their supporting maintenance shop for disposition instructions or action. Documentation of the steps taken to obtain needed parts is extremely important to show that maximum maintenance effort has been exerted. The maintenance officer of the IMA may extend the limits of the maximum maintenance cycle time, subject to approval of the equipment's unit commander, when economically justified and advantageous to mission completion.

Maintenance Production

Maintenance Production			
Preventive Maintenance Checks and Services	Corrective Maintenance	Overhaul	Rebuild
Calibration	Modification	Conversion	Modernization
Field Functions		Depot Functions	
1. Preventive Maintenance Checks and Services		1. All Field Functions	
2. Corrective Maintenance		2. Overhaul	
3. Calibration		3. Conversion	
4. Modification		4. Rebuild	
5. Fabrication		5. Fabrication	
		6. Modernization	

Functions of Maintenance

Maintenance Functions Definitions	
Preventive Maintenance Checks and Services	Includes the checking and servicing performed by personnel to maintain equipment in satisfactory operating condition. This is achieved by accomplishing systematic inspection, detection, and correction of incipient failures either before they occur or before they develop into major defects. A systematic PMCS program consisting of inspecting, cleaning, servicing, lubricating, and adjusting is the key to equipment readiness. It is normally a function of organizational maintenance and accomplished by the unit's operational and maintenance personnel. Effectively administered PMCS will help prevent early breakdown or failure of equipment, and prevent costly, complex, and time-consuming repairs and allow the optimum use of maintenance resources.
Corrective Maintenance	Maintenance actions performed, as a result of a failure, to restore equipment to a specific condition. The tasks comprising CM vary but when performed, CM will normally occur in the same sequence. The composite of these tasks is referred to as the CM process and, for any specified maintenance action, consists of those tasks to restore the equipment to the specified condition. The CM process commences when equipment is reported as requiring CM. It terminates when equipment is either restored to a serviceable condition, or declared not repairable, or as otherwise determined by competent authority.
Modifications	Maintenance actions performed to change the design or assembly characteristics of equipment systems, end items, components, assemblies, subassemblies, or parts in order to improve equipment functioning, maintainability, reliability, and/or safety characteristics. Field recommendations for equipment improvement (PQDR's, beneficial suggestions) frequently establish the requirement for equipment modification. In such instances, the maintenance engineering activity of the Marine Corps uses these recommendations as the basis of the engineering analysis to correct the equipment deficiency.
Calibrations	Calibration laboratories are designated by HQMC and are authorized the necessary equipment to perform calibration and repair operations. The majority of TMDE used in performing maintenance and certain other measuring equipment require periodic calibration.

Recommended Major Command Materiel Readiness Dashboard Topics

Key performance indicators an MSC or MEF Commander may wish to consider in monitoring the performance of supply and maintenance management support within the command.

Key Performance Indicator	Description
MSC Supply Accuracy Score	Graphically depicts possible accountability issues and/or training issues within an MSC/command. ("Accuracy"= (Total IB Records - (Perpetual Inventory + No SUC + "Returned for Repair" + Wrong IB))/Total IB Records)
MSC Fiscal Obligation Rates	Comparison to Actual FY Calendar Completion Rate (Current FY Obligation Rate = <u>X</u> % of FY budget; Current FY Completion = <u>X</u> %)
MSC SAC 1/3 Deficiency and Excess Quantities	Affects availability of "X", excesses really need to cross-level.
IMA Maintenance Cycle Times	Affects availability of "X" TAMCNs.
SMU Fill Rate	Could affect availability of "X" TAMCNs. Shows how well SMU stocks are working for the Major Command.
MSC Crane Delinquency Rate	Affects availability of "X" TAMCN (small arms) and indicates loss of accountability for sensitive items.
MSC FSMAO Quarterly Analysis Summary Score	Shows accountability issues, training issues, audit readiness.
MSC MARES S/R Ratings	Affects availability of "X" TAMCNs.
MSC Total Deadline Service Requests within GCSS-MC	Affects availability of "X" TAMCNs shows performance of supply and maintenance within the command.
MSC Field Maintenance Production Status	Similar to supply "accuracy". Maintenance Performance = (PM + CM + Cal + Mods + Fabs?)
MSC UIF/CIF Delinquent Accounts	Affects availability of "X" equipment to outfit deploying/training forces and creates a fiscal issue.

Supply & Maintenance Publications

Order	Title
<u>UM 4400-125</u>	<u>Global Combat Support System–Marine Corps (GCSS-MC) User Manual Version 1.0 (Draft)</u>
<u>MCO P4400.150</u>	<u>Consumer-Level Supply Policy</u>
<u>MCO 4400.160</u>	<u>Field Supply And Maintenance Analysis Office Program</u>
<u>MCO 4400.16H</u>	<u>Uniform Material Movement and Issue Priority System (UMMIPS)</u>
<u>MCO 4030.16F</u>	<u>Marine Corps Packaging and Packaging Maintenance of Small Arms Weapons Using Volatile Corrosion Inhibitor (VCI) Treated Materials</u>
<u>MCO 4050.38D</u>	<u>Personal Effects And Baggage Manual</u>
<u>MCO 5530.14A</u>	<u>Marine Corps Physical Security Program Manual</u>
<u>MCO P4790.2C</u>	<u>MIMMS Field Procedures Manual</u>
<u>MCO 4790.25</u>	<u>Ground Equipment Maintenance Program (GEMP)</u>
<u>MCO P8020.10B</u>	<u>Marine Corps Ammunition And Explosives Safety Program</u>
<u>MCO 8300.1D</u>	<u>Marine Corps Serialized Small Arms/Light Weapons Accountability Program (MCSSAAP)</u>
<u>MCO 3000.11E</u>	<u>Ground Equipment Condition And Supply Materiel Readiness Reporting (MRR) Policy</u>
<u>MCBUL 3000</u>	<u>Marine Corps Automated Readiness Evaluation System</u>
<u>NAVMC 2664</u>	<u>USMC Financial Guidebook for Commanders</u>
<u>NAVMC 3500.64A</u>	Ground Supply Training and Readiness Manual <u>Part 1:</u> <u>Part 2:</u>

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