

DoD Maintenance 2015 FACT BOOK





OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
(LOGISTICS AND MATERIEL READINESS)
3500 DEFENSE PENTAGON
WASHINGTON DC 20301-3500

In FY2014, DoD maintenance accounted for \$73.3 billion, or approximately 13 percent of the total DoD resource allocation of \$581.2 billion.

The combined effort of approximately 620,000 military and civilian maintainers and thousands of commercial firms was devoted to the maintenance and materiel readiness of 14,444 aircraft; 884 strategic missiles; 391,520 ground combat and tactical vehicles; 237 ships; and myriad other DoD weapons systems.

This *FY2015 DoD Maintenance Fact Book* outlines the cost and scope of maintenance as well as the people, organizations, and locations performing maintenance. It also contains information about DoD maintenance capabilities and programs across major depots and shipyards, as well as intermediate and field level maintenance units throughout the world.

This 2015 Fact Book identifies current and past winners of the Phoenix Award, the Secretary of Defense Award for Field-Level Maintenance, and the Robert T. Mason Award for Depot Maintenance Excellence.

Beginning in FY14, a new category of the Secretary of Defense Maintenance Awards was created to recognize the highest levels of achievement in providing training, advice, and assistance to our international partners and to emphasize the growing importance of DoD's role



ACQUISITION,
TECHNOLOGY, AND
LOGISTICS

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in establishing self-sustaining maintenance capabilities of foreign security forces.

This additional Secretary of Defense Maintenance Awards Category—Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces—includes the Ministerial and Operational Award Winners.

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Maintenance Overview

Systems Supported by DoD Maintenance

35,135
combat vehicles

884
strategic missiles



237 ships

14,444 aircraft

- + 356,385 tactical vehicles
- + Communications/electronics equipment
- + Support equipment
- + Other systems

Maintained by:

620,000 DoD personnel
Private-sector companies



Maintenance cost:

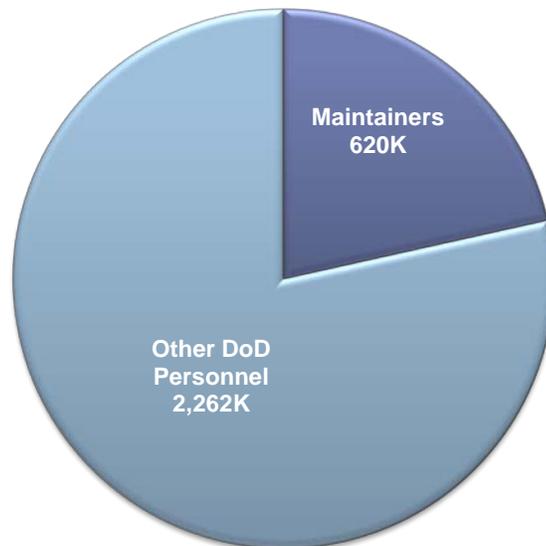
\$73.3 billion

Numbers shown are approximate.

Maintenance Overview

Scope of DoD Maintenance—FY2014*

DoD Personnel



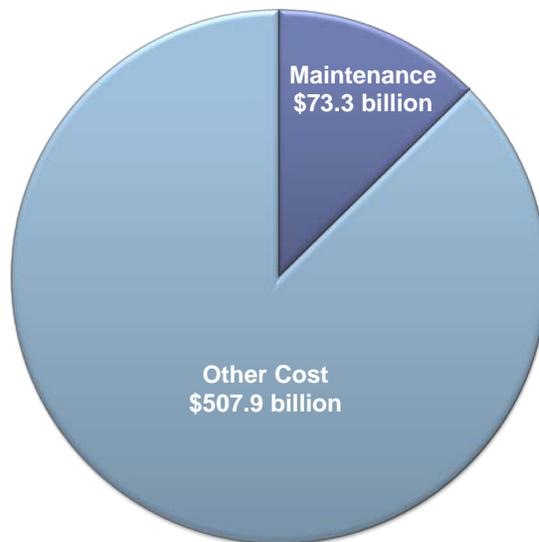
Maintenance Personnel = 496K military and 124K civilian

* Includes both hardware and software maintenance of weapon systems and related components; excludes maintenance of real property, installations, and utilities.

Maintenance Overview

Scope of DoD Maintenance—FY2014*

DoD Actual Spending



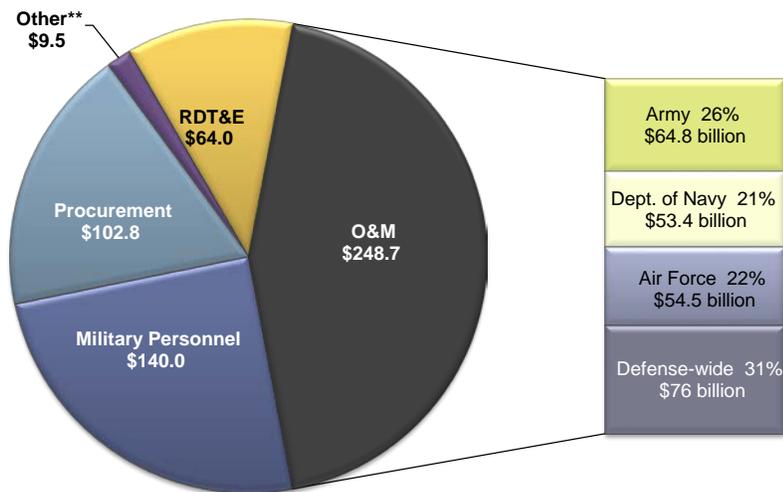
Total Spending = \$581.2 billion

* Spending for FY2014 materiel maintenance includes baseline budget and Overseas Contingency Operations (OCO) appropriations.

Maintenance Overview

FY2015 Funding for DoD

Total obligation authority: \$565 billion*



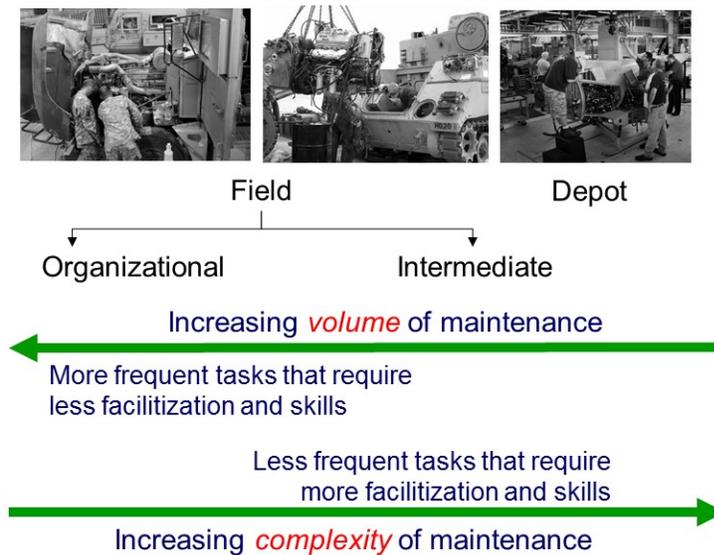
Maintenance is historically funded 60% by O&M and 40% by Military Personnel appropriations.

* Includes baseline budget (\$499.5 billion) and Overseas Contingency Operations (\$65.5 billion) as of the February 2015 President's Budget Request.

** Includes military construction, family housing, and revolving and management funds.

Maintenance Overview

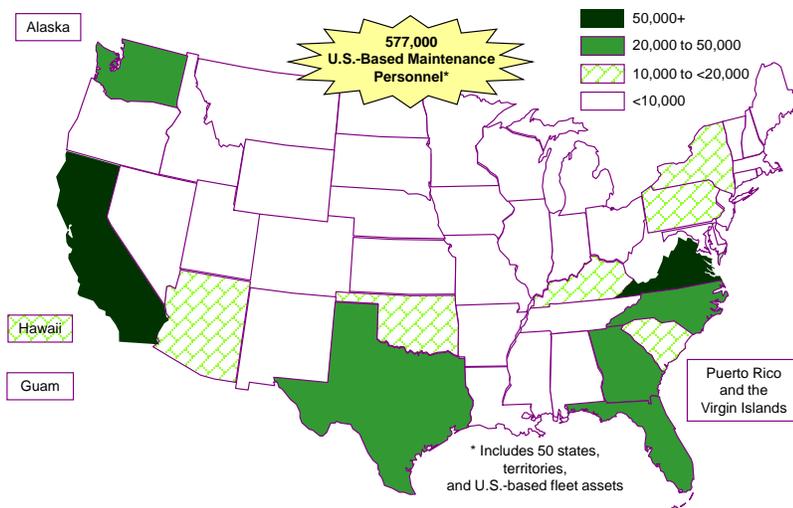
Levels of DoD Maintenance



DoD materiel maintenance is performed at different levels, ranging in complexity from daily system inspection to rapid removal and replacement of components to the complete overhaul or rebuild of weapon systems.

Maintenance Workforce

DoD Maintainers by State and Territory

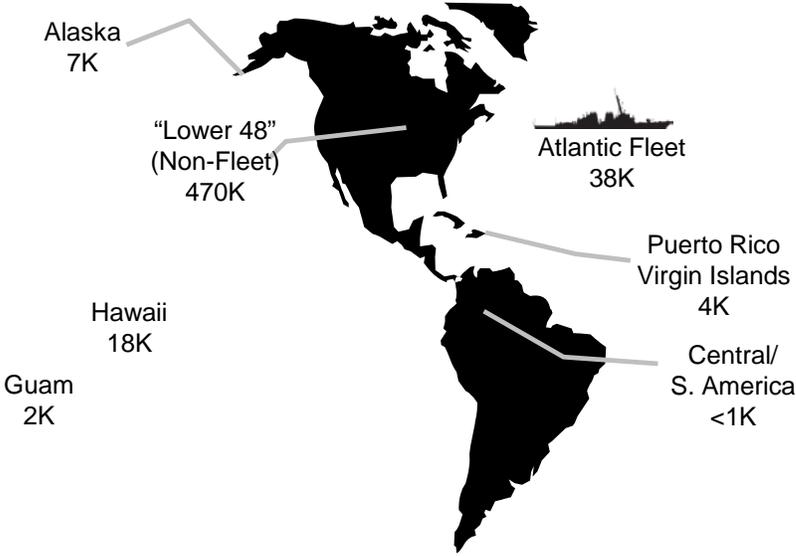


Maintenance Workforce data derived from end of FY2014 Defense Manpower Data Center files that identify maintainers by military and civilian personnel skill codes.

Numbers shown are approximate.

Maintenance Workforce

DoD Maintainers Worldwide

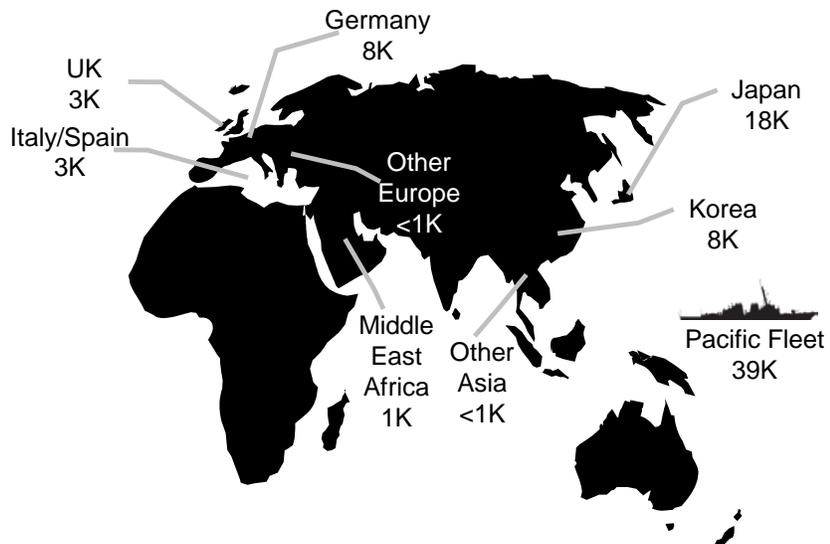


Data derived from Defense Manpower Data Center files.

Numbers shown are approximate.

Maintenance Workforce

DoD Maintainers Worldwide



Data derived from Defense Manpower Data Center files.

Numbers shown are approximate.

Maintenance Workforce

Personnel Strength of Field- and Depot-Level Maintenance

~575K field-level maintainers



Includes approximately 27K National Guard technicians, 8K Reserve technicians, and 43K other civilian maintainers.

~45K depot-level maintainers



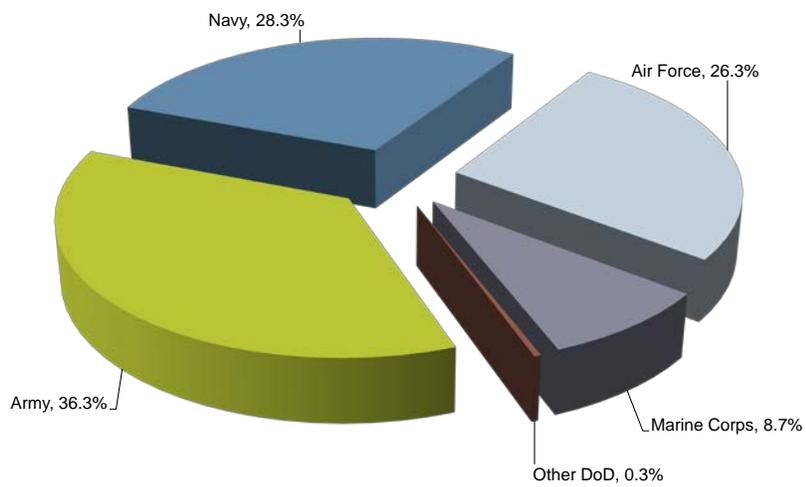
There are also 30K engineers, scientists, analysts, supply specialists, and other civilian non-maintainers essential to maintenance production.

Data derived Defense Manpower Data Center files.

Numbers shown are approximate.

Maintenance Workforce

DoD Maintainers by Military Service

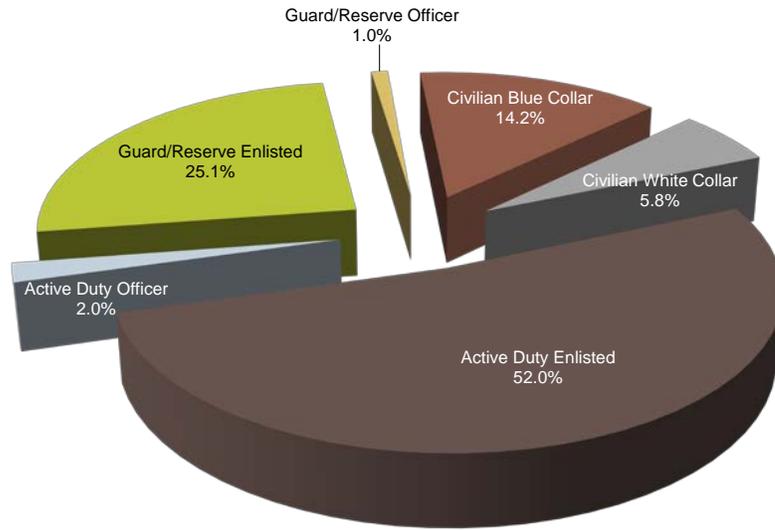


Service	Personnel (in thousands)
Army	225
Navy	176
Air Force	163
Marine Corps	54
Other DoD	2
Total DoD Maintainers	620

Numbers shown are approximate.

Maintenance Workforce

DoD Maintainers by Personnel Category

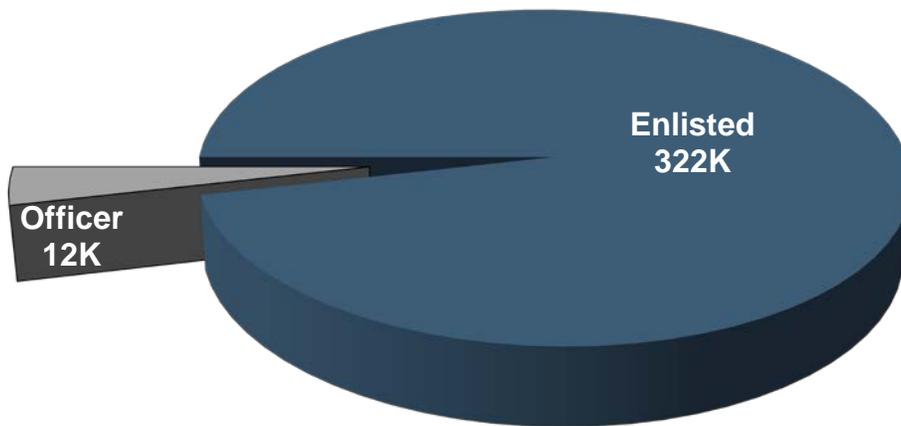


Category	Personnel (in thousands)
Active Duty Enlisted	322
Active Duty Officer	12
Guard/Reserve Enlisted	155
Guard/Reserve Officer	6
Civilian Blue Collar	88
Civilian White Collar	36
Total DoD Maintainers	620

Numbers shown are approximate.

Maintenance Workforce

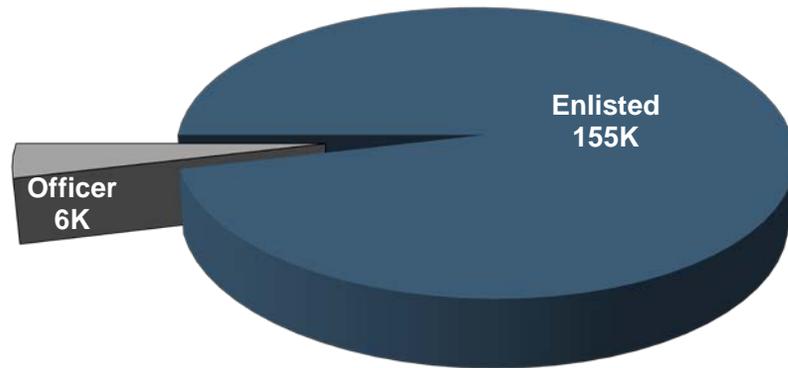
Active Duty Maintainers



Officers		Enlisted	
56.5%	Commissioned Officers	64.4%	Mechanical/Electrical
43.5%	Warrant Officers	25.2%	Electronic
		4.2%	Craftworkers
		6.2%	Others

Maintenance Workforce

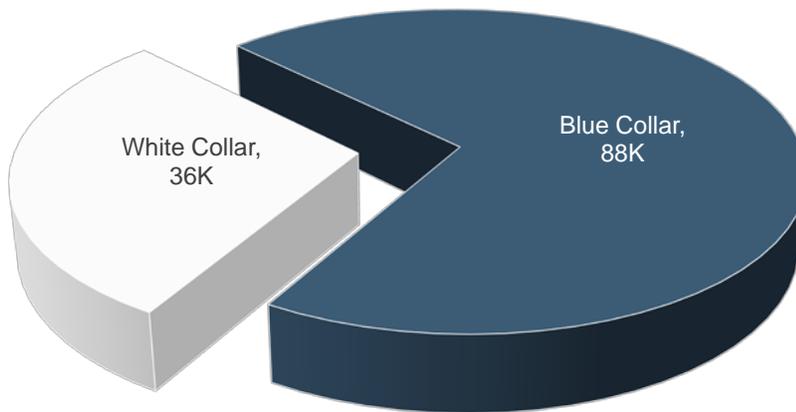
National Guard and Reserve Maintainers



Officers		Enlisted	
46.8%	Commissioned Officers	69.6%	Mechanical/Electrical
53.2%	Warrant Officers	17.7%	Electronic
		8.4%	Craftworkers
		4.3%	Others

Maintenance Workforce

DoD Civilian Maintainers



White Collar		Blue Collar	
40.1%	Electrical/Mechanical & Electronic	62.0%	Mechanical/Electrical
19.0%	Production Management	24.2%	Craftworkers
9.7%	Communications & Radar	11.8%	Electronic
11.2%	Aviation Maintenance	2.0%	Others
19.9%	Other		

Field-Level Maintenance

Major Intermediate Maintenance Activities, Active Components

Army

- 50 aviation maintenance companies
- 287 ground maintenance companies
- 1 watercraft maintenance company

Navy

- 12 shore-based I-level fleet readiness centers (FRCs)
- 6 shore-based overseas aircraft intermediate maintenance departments (AIMDs)
- 20 shipboard AIMDs
- 8 ship/submarine intermediate maintenance facilities (IMFs)

Air Force

- 56 aircraft, missile, and munitions maintenance groups (MXGs)

Marine Corps

- 11 marine aviation logistics squadrons (MALs)
- 3 maintenance battalions

Field-Level Maintenance

Major Intermediate Maintenance Activities, Reserve Components*

Army National Guard

- Maintenance companies: 35 aviation, 298 ground
- Approximately 13,000 maintainers primarily assigned to field maintenance shops, training and support sites, combined support maintenance shops, and aviation support facilities in each state or territory
- 4 aviation classification repair activity depots (AVCRADs)

Army Reserve

- Maintenance companies: 4 aviation, 37 ground, 1 watercraft
- Approximately 3,000 maintainers assigned across the four regional support commands, working primarily at dispersed equipment concentration sites (ECSs) or area maintenance support activity (AMSA) locations

Navy Reserve

- 4 shore-based I-level FRCs

Air National Guard/Air Force Reserve

- 110 aircraft, missile, and munitions MXGs

Marine Corps Reserve

- 2 MALs
- I-level maintenance functions reorganized within 2 Combat Logistics Battalions (CLBs)

* Excludes provisional units.

Depot-Level Maintenance

Major Depot-Level Activities by Location and Category



Shipyard:
Navy (4)
Vehicle and Armament:
Army (2)
Marine Corps (2)
Aviation:
Army (1)
Navy (3)
Air Force (3)
Missile:
Army (1)
Communications and Electronics:
Army (1)

Depot-Level Maintenance

DoD Depot-Level Software Maintenance Activities by Location and Service



Activities shown perform software maintenance, which includes the repair, adaptive modifications or upgrades, and change events (for example, integration and testing) made to operational software resident in either a weapon system or support equipment that is integral to operations or sustainment of a weapon system. This can include the modifications or upgrades necessary to ensure safety and relevance in operation and interoperability with other systems.

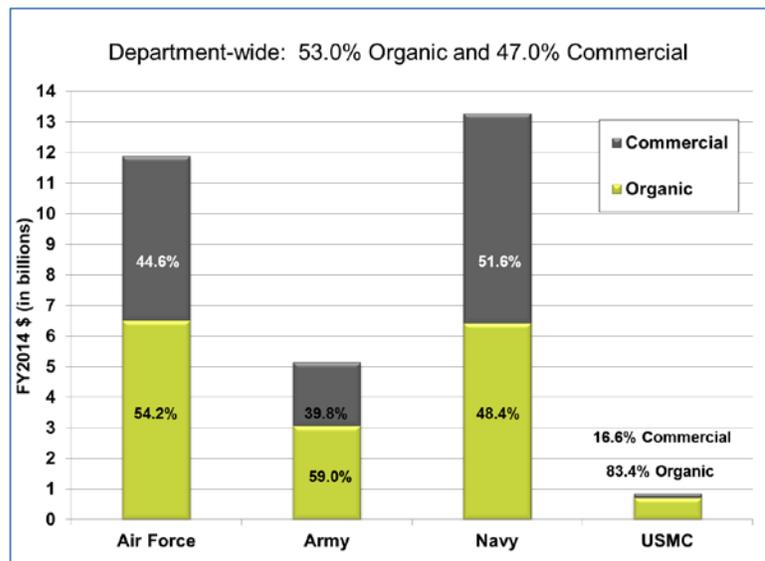
Depot-Level Maintenance

DoD Depot-Level Software Maintenance Activities by Organization and Location

Army	Navy
AMRDEC, Redstone Arsenal, AL ARDEC SEC Picatinny Arsenal, NJ CECOM SEC/CERDEC SED Aberdeen (APG), MD CECOM SEC/CERDEC SED Ft. Huachuca, AZ CECOM SEC/CERDEC SED Ft. Sill, OK TARDEC Detroit Arsenal, MI	NAWC-WD China Lake, CA NAWC-AD Lakehurst, NJ NAWC-TSD Orlando, FL NAWC-AD Patuxent River, MD NAWC-WD Point Mugu, CA NAWC-AD Indianapolis, IN NSWC Crane, IN NSWC Corona, CA NUWC Newport, RI SPAWAR Systems Center Atlantic, LA SPAWAR Systems Center Atlantic, SC SPAWAR Systems Center Pacific, CA
Air Force	
Ogden ALC, UT Oklahoma City ALC, OK Warner Robins ALC, GA	

Depot-Level Maintenance

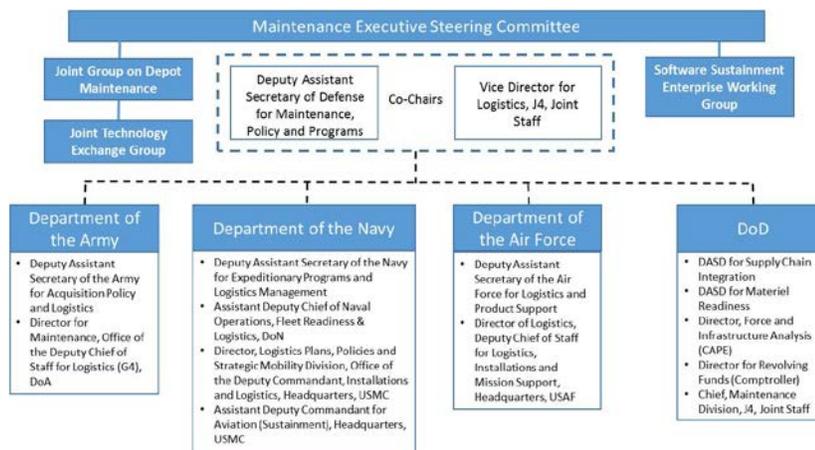
Organic-Commercial Mix of DoD's Depot Maintenance Workload



Navy and Marine Corps as a Department: 50.5% Organic, 49.5% Commercial

DoD Overview

DoD Maintenance Governance

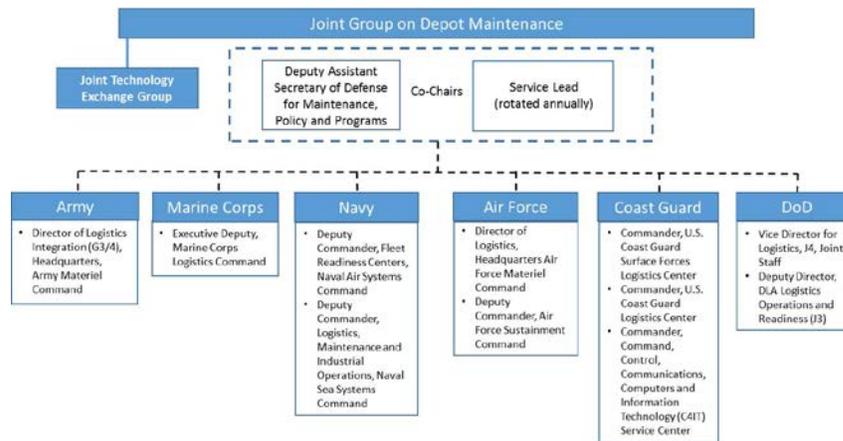


Maintenance Executive Steering Committee (MESC). The MESC serves as the executive governance body for DoD maintenance policy and programs. Together with its standing subcommittee, the Joint Group on Depot Maintenance (JG-DM), it provides guidance for joint planning, monitoring, and evaluation of the DoD maintenance program while helping to synergize, optimize and steer DoD enterprise maintenance strategy and practice. Governance authority for the MESC is derived from the positional authority and responsibilities of each member as they perform duties for their parent organization.

Software Sustainment Enterprise Working Group (SSEWG). DoD is moving forward with the establishment of the SSEWG. It will be chartered as an OSD and cross-Service committee to address and develop solutions to common issues, share best practices, and generate software sustainment-related policy.

DoD Overview

DoD Maintenance Governance



Joint Group on Depot Maintenance (JG-DM). The JG-DM is chartered by the MESC to promote and review depot maintenance functions at the enterprise level in order to achieve effective and affordable depot maintenance support for the nation's weapon systems and to execute responsibilities assigned in Department of Defense Directive 4151.18. The Services provide a co-chair on a two year rotation to serve with the DASD (MPP).

Joint Technology Exchange Group (JTEG). The JTEG is chartered by the JG-DM to improve coordination in the introduction of new or improved technology, new processes, or new equipment into DoD depot maintenance activities. The JTEG seeks ways to better leverage technology improvements in maintenance by collaboration, effectiveness, and efficiency.

DoD Overview

DASD MPP Strategic Direction



The DASD MPP Maintenance Planning and Operations strategy is supported by three pillars; (resources), (effectiveness and efficiency); and (reliability, maintainability and supportability). Focus on these pillars helps to ensure connectivity among warfighting capability, readiness, and maintenance requirements and budgets.

This pillar structure focuses maintenance leadership throughout the Department on developing and strengthening DoD maintenance capabilities, protecting and advocating for maintenance resource requirements, and establishing new efficient and effective maintenance capabilities at all levels.

Maintenance Awards

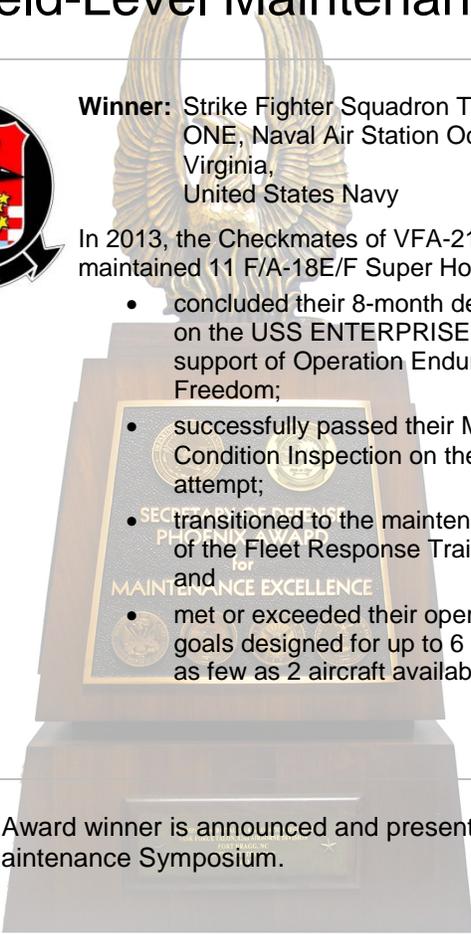
2014 Phoenix Award Winner for Field-Level Maintenance



Winner: Strike Fighter Squadron TWO ONE ONE, Naval Air Station Oceana, Virginia, United States Navy

In 2013, the Checkmates of VFA-211 maintained 11 F/A-18E/F Super Hornets:

- concluded their 8-month deployment on the USS ENTERPRISE (CVN 65) in support of Operation Enduring Freedom;
- successfully passed their Material Condition Inspection on the first attempt;
- transitioned to the maintenance phase of the Fleet Response Training Cycle; and
- met or exceeded their operational goals designed for up to 6 aircraft with as few as 2 aircraft available.



The trophy is a large, dark-colored award with a golden phoenix sculpture on top. A plaque on the front of the trophy reads: "SECURITY ASSISTANCE PHOENIX AWARDS for MAINTENANCE EXCELLENCE".

The Phoenix Award winner is announced and presented annually at the DoD Maintenance Symposium.

Maintenance Awards

Past Winners of the Phoenix Award

- 2013** D Company, 3rd Battalion, 82nd Aviation Regiment,
82nd Airborne Division, USA
- 2012** Helicopter Maritime Strike Squadron 77, USN
- 2011** Marine Tactical Electronic Warfare Squadron 1,
USMC
- 2010** Marine Aviation Logistics Squadron 40, USMC
- 2009** 1st Squadron, 3rd Armored Cavalry Regiment, USA
- 2008** 1st Special Operations Maintenance Group, USAF
- 2007** 1st Maintenance Battalion, USMC
- 2006** 3D Materiel Readiness Battalion, USMC
- 2005** 3rd Battalion, 7th Field Artillery Regiment, USA
- 2004** Combat Service Support Battalion 10, Air Ground
Combat Center, USMC
- 2003** 3rd Battalion, 7th Infantry Regiment, USA
- 2002** USS ENTERPRISE (CVN 65), USN
- 2001** USS DWIGHT D. EISENHOWER (CVN 69), USN
- 2000** 555th Fighter Squadron, USAF
- 1999** Norfolk Shore Intermediate Maintenance Activity,
USN
- 1998** 68th Transportation Battalion, USA
- 1997** 1st Maintenance Battalion, USMC
- 1996** 48th Fighter Wing, USAF

Maintenance Awards

Past Winners of the Phoenix Award

- 1995** 51st Maintenance Battalion, USA
- 1994** 1st Maintenance Battalion, 1st Force Service Support Group (FMFPAC), USMC
- 1993** Shore Intermediate Maintenance Activity, Charleston, SC, USN
- 1992** Marine Fighter Attack Squadron 235, USMC
- 1991** Marine Aviation Logistics Squadron 16, USMC
- 1990** 1st Battalion, 29th Infantry Regiment, USA
- 1989** 363rd Tactical Fighter Wing (TAC), USAF
- 1988** USS ACADIA (AD 42), USN
- 1987** 50th Tactical Fighter Wing (USAFE), USAF
- 1986** 416 Bombardment Wing (SAC), USAF
- 1985** USS JOHN F. KENNEDY (CV 67), USN

Maintenance Awards

2015 Secretary of Defense Field-Level Maintenance Award Winners

Small Category



Maintenance Company, Group Support Battalion
(GSB), 10th Special Forces Group (A)
Fort Carson, CO
United States Army



801st Special Operations, Aircraft Maintenance
Squadron
Hurlburt Field, Florida
United States Air Force

Medium Category



Marine Aviation Logistics Squadron 13
Marine Corps Station Yuma, Arizona
United States Marine Corps



USS GETTYSBURG (CG 64)
Naval Station Mayport, Florida
United States Navy

Large Category



2nd Maintenance Battalion
Camp Lejeune, North Carolina
United States Marine Corps



Trident Refit Facility
Kings Bay, Georgia
United States Navy

The Field-Level Maintenance Awards are presented annually at the DoD Maintenance Symposium.

Maintenance Awards

2015 Robert T. Mason Award for Depot Maintenance Excellence

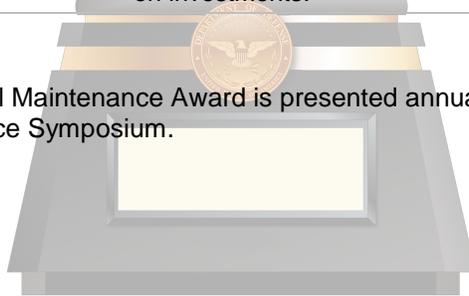


Winner: Test Measurement and Diagnostic Equipment Program
Marine Depot Maintenance
Command, Marine Corps Logistics Base,
Albany, Georgia
United States Marine Corps

During 2014, the Test Measurement and Diagnostic Equipment (TMDE) Program:

- excelled at delivering world-class, value-based repair and test solutions in support of the warfighter;
- calibrated, repaired and tested in excess of 20,000 pieces of equipment;
- provided training to approximately 900 Marines throughout the world; and
- produced more that \$2 million in return on investments.

The Depot-Level Maintenance Award is presented annually at the DoD Maintenance Symposium.



Maintenance Awards

Past Winners of the Robert T. Mason Award

- 2014** F-22 Raptor Depot Maintenance Team, Ogden Air Logistics Complex, UT, United States Air Force
- 2013** UH-60 Black Hawk Recapitalization Program
Corpus Christi Army Depot, Texas
- 2012** C-130 Programmed Depot Maintenance Team
Warner Robins Air Logistics Center
Robins Air Force Base, Georgia
- 2011** KC-135 Programmed Depot Maintenance Team
Oklahoma City Air Logistics Center
Tinker Air Force Base, Oklahoma
- 2010** Emergent Repair Program
Pearl Harbor Naval Shipyard and Intermediate
Maintenance Facility, Joint Base Pearl Harbor,
Hickam, Hawaii
- 2009** Mine-Resistant, Ambush-Protected Vehicle Program
Red River Army Depot, Texarkana, Texas
- 2008** H-1 Aircraft Production Program
Fleet Readiness Center East, Marine Corps Air Station
Cherry Point, North Carolina
- 2007** Dedicated Design and Prototype Effort
Marine Corps Maintenance Center, Albany, Georgia
- 2006** High Mobility Multipurpose Wheeled Vehicle
(HMMWV) Recapitalization Program,
Red River Army Depot, Texarkana, Texas
- 2005** Vehicle Armor Protective Kits Program Marine Corps
Maintenance Center, Albany, Georgia

Maintenance Awards

2015 Secretary of Defense Award for Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces

MINISTERIAL AWARD WINNERS
Global Ministry of Defense Advisors Program, DoD Country Team –
Montenegro
Defense Security Cooperation Agency
Podgorica, Montenegro
Office of the Secretary of Defense

OPERATIONAL AWARD WINNERS
438th Air Expeditionary Wing
9th Air Expeditionary Task Force
Kabul International Airport and Kandahar Air Field
United States Air Force Central Command

317th Support maintenance Company
18th Combat Sustainment Support Battalion
16th Sustainment Brigade
United States Army Europe



The Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces Awards are presented annually at the DoD Maintenance Symposium.

Maintenance Awards

Past Winners of the Secretary of Defense Award for Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces

2014

MINISTERIAL AWARD WINNERS

Ministry of Defense Ministerial Advisory Group Logistics
Advisory Team and Sustainment Enterprise Advisory Group
Strategic Initiatives Team International Security Assistance
Force, Headquarters Kabul, Afghanistan United States Central
Command

OPERATIONAL AWARD WINNERS

438th Air Expeditionary Wing 9th Air Expeditionary Task
Force, Kabul International Airport, Kandahar Air Field, and
Shindand Air Field United States Air Force Central Command

526th Brigade Support Battalion, 2nd Brigade Combat Team
101st Airborne Division, Combined Joint Task Force-10
Regional Command-East, Bagram Air Field, Afghanistan
United States Army

Acronyms

AD	Army Depot
AFB	Air Force Base
AIMD	Aircraft Intermediate Maintenance Department
ALC	Air Logistics Complex
AMRDEC	Aviation and Missile Research, Development and Engineering Center
AMSA	Area Maintenance Support Activity
AOR	area of responsibility
ARDEC	Armament Research, Development and Engineering Center
AVCRAD	Aviation Classification Repair Activity Depot
CECOM	Communications-Electronics Command
CERDEC	Communications-Electronics Research, Development and Engineering Center
CG	Guided Missile Cruiser
CLB	Combat Logistics Battalion
CONUS	Continental United States
CV	Multipurpose Aircraft Carrier
CVN	Carrier, Fixed Wing Aircraft, Nuclear
DA	Department of Army
DASD	Deputy Assistant Secretary of Defense
DLA	Defense Logistics Agency
DoD	Department of Defense
ECS	Equipment Concentration Site
FMFPAC	Fleet Marine Force, Pacific
FRC	Fleet Readiness Center
FY	Fiscal Year
HMMWV	High Mobility Multipurpose Wheeled Vehicle
IMF	Intermediate Maintenance Facility
MALS	Marine Aviation Logistics Squadron
MPP	Maintenance Policy and Programs
MR	Materiel Readiness
MXG	Maintenance Group

Acronyms

NAS	Naval Air Station
NAWC	Naval Air Warfare Center
NSY	Naval Shipyard
NSWC	Naval Surface Warfare Center
NUWC	Naval Undersea Warfare Center
O&M	Operations and Maintenance
OCO	Overseas Contingency Operations
OSD	Office of the Secretary of Defense
RDT&E	Research, Development, Test, and Evaluation
RM	Resource Management
SAC	Strategic Air Command
SCI	Supply Chain Integration
SE	Southeast
SEC	Software Engineering Center
SED	Software Engineering Directorate
SPAWAR	Space and Naval Warfare Systems Command
SW	Southwest
TAC	Tactical Air Command
TARDEC	Tank Automotive Research, Development and Engineering Center
TMDE	Test Measurement and Diagnostic Equipment
USA	United States Army
USAF	United States Air Force
USAFE	United States Air Forces in Europe
USMC	United States Marine Corps
USN	United States Navy
USS	United States Ship

Reference

Explanatory Notes

All facts and statistics depicted in the *2015 DoD Maintenance Fact Book* relate to materiel maintenance.

The following terms are used throughout the fact book:

- **Depot level** for the most complex and extensive work.
- **Intermediate level** for less complex maintenance performed by operating unit back shops, base-wide activities, or consolidated regional facilities.
- **Organizational level** for more time-sensitive work performed in the field, on the flight line, or at the equipment site.
- **Field level** to signify the combination of the organizational and intermediate levels.

All financial and maintenance workforce charts in the fact book, unless otherwise noted, depict FY2014 year-end data.

Percentages with pie charts will not always equal 100% because of rounding.

This document is published for information only. It does not constitute official DoD correspondence.



An electronic version of the *Fact Book*, as well as other information relevant to the responsibilities and functions of DoD's Maintenance Policy and Programs office, is located at: <http://www.acq.osd.mil/log/mpp/>