

# DoD Maintenance 2016 FACT BOOK





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

In FY2015, DoD maintenance accounted for \$71.5 billion, or approximately 13 percent of the total DoD resource allocation of \$565.4 billion.

The combined effort of approximately 617,000 military and civilian maintainers and thousands of commercial firms was devoted to the maintenance and materiel readiness of 13,957 aircraft; 797 strategic missiles; 421,319 ground combat and tactical vehicles; 232 ships; and myriad other DoD weapons systems.

This *FY2016 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 organizational level maintenance units throughout the world.

This 2016 Fact Book identifies current and past winners of the Phoenix Award, the Secretary of Defense Award for Field-Level Maintenance, the Robert T. Mason Award for Depot Maintenance Excellence, and the Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces.



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# Maintenance Overview

## Systems Supported by DoD Maintenance

37,867 combat vehicles      797 strategic missiles



232 ships      13,957 aircraft  
+ 383,452 tactical vehicles  
+ Communications/electronics equipment  
+ Support equipment  
+ Other systems

**Maintained by:**

617,000 DoD personnel  
Private-sector companies



**Maintenance cost:**

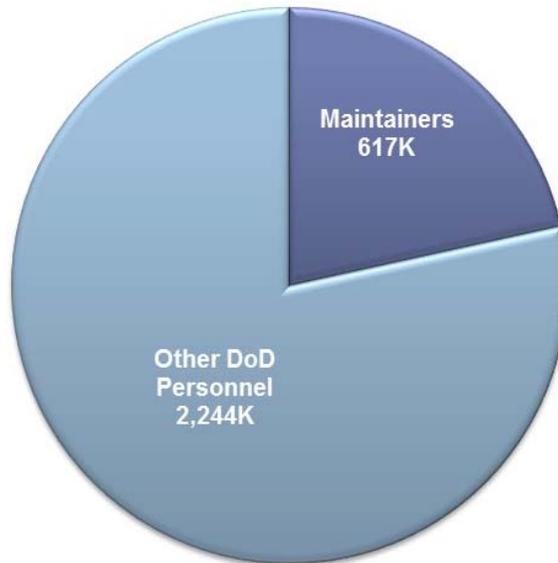
\$71.5 billion

Numbers shown are approximate.

# Maintenance Overview

## Scope of DoD Maintenance—FY2015

### DoD Personnel



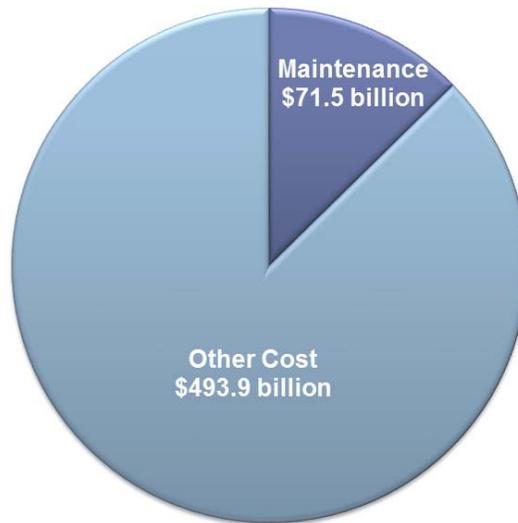
Maintenance Personnel = 491K military and 126K civilian

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—FY2015

### DoD Actual Spending



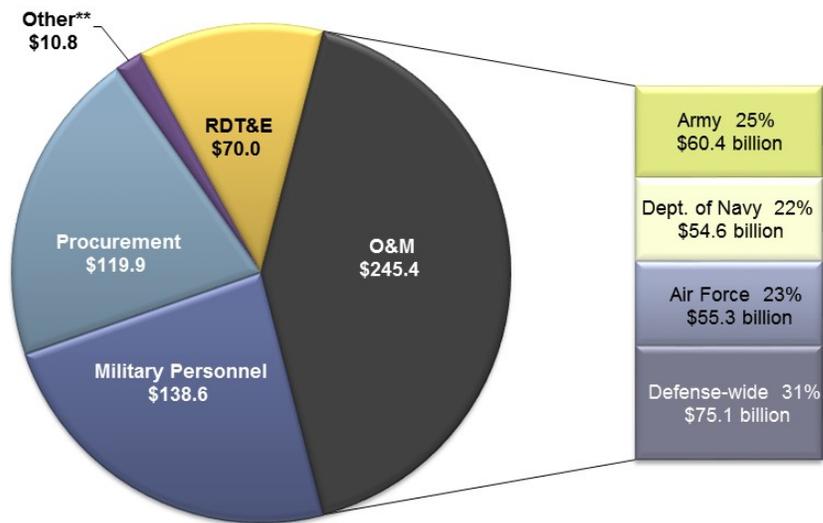
Total Spending = \$565.4 billion

Spending for FY2015 materiel maintenance includes baseline budget and Overseas Contingency Operations (OCO) appropriations.

# Maintenance Overview

## FY2016 Funding for DoD

Total obligation authority: \$584.7 billion\*



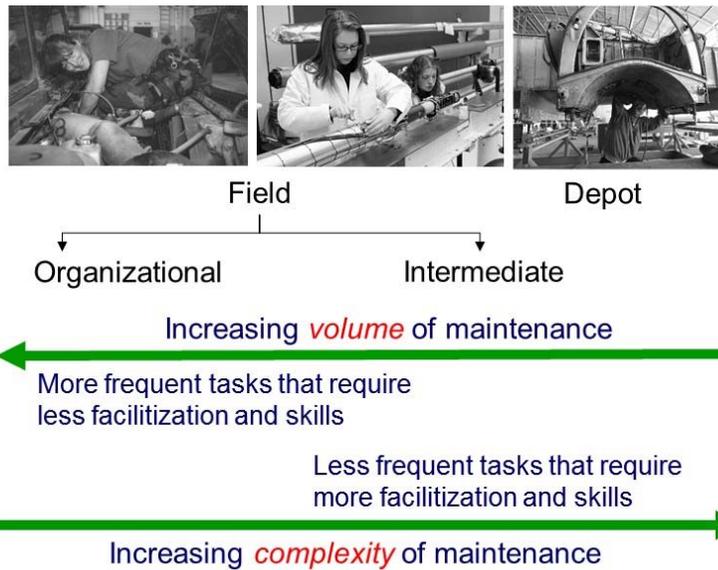
Maintenance is historically funded 60% by O&M and 40% by Military Personnel appropriations.

\* Includes baseline budget (\$525.7 billion) and Overseas Contingency Operations (\$59.0 billion) as of the February 2016 President's Budget Request.

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

# Maintenance Overview

## Levels of DoD Maintenance

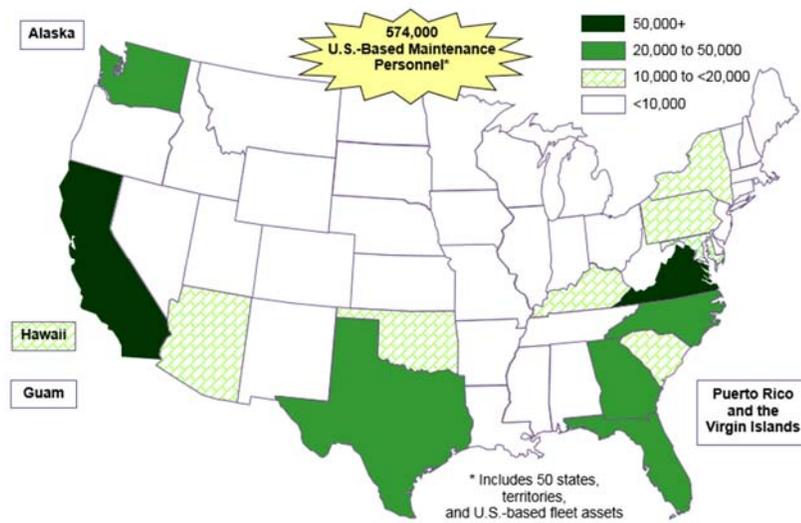


DoD materiel maintenance is performed at different levels, ranging in complexity from daily system inspection to rapid removal and replacement of components to the complete overhaul or rebuild of weapon systems.



# Maintenance Workforce

## DoD Maintainers by State and Territory

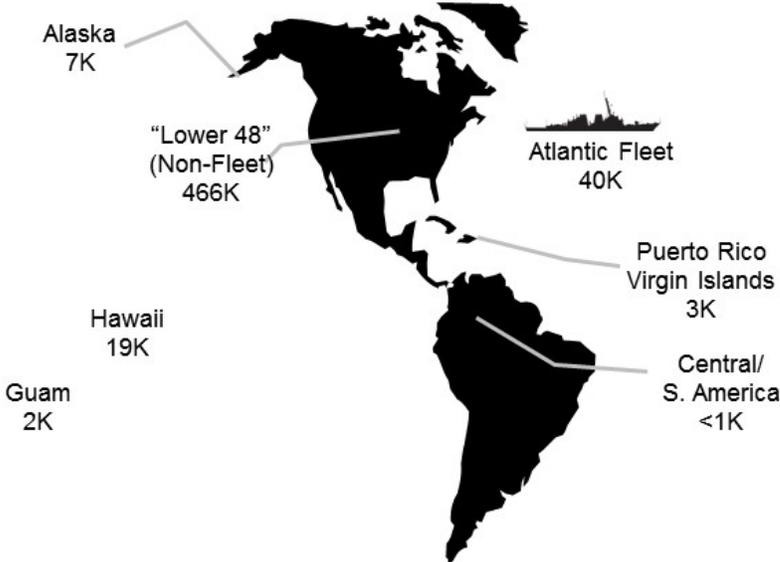


Maintenance Workforce data derived from end of FY2015 Defense Manpower Data Center files that identify maintainers by military and civilian personnel skill codes.

Numbers shown are approximate

# Maintenance Workforce

## DoD Maintainers Worldwide

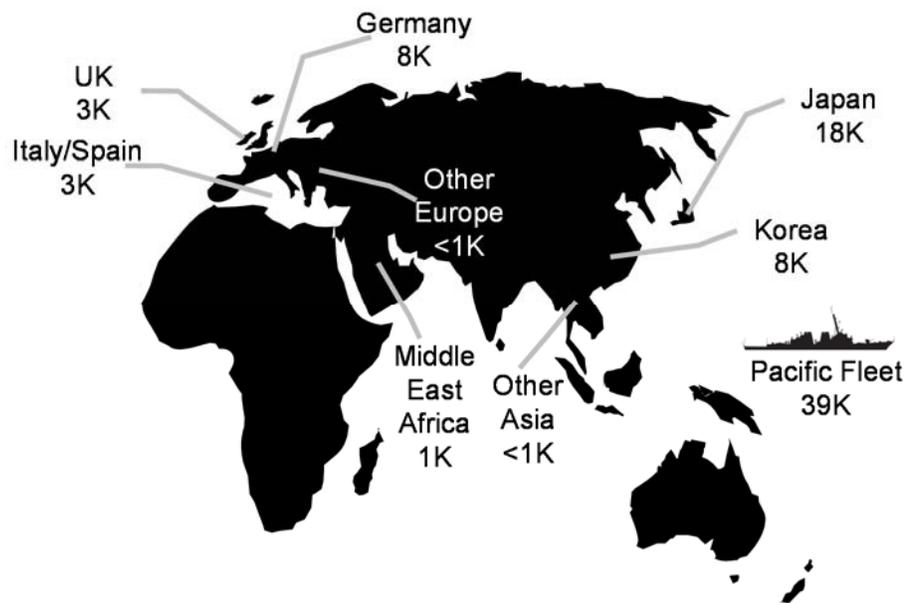


Data derived from Defense Manpower Data Center files.

Numbers shown are approximate.

# Maintenance Workforce

## DoD Maintainers Worldwide



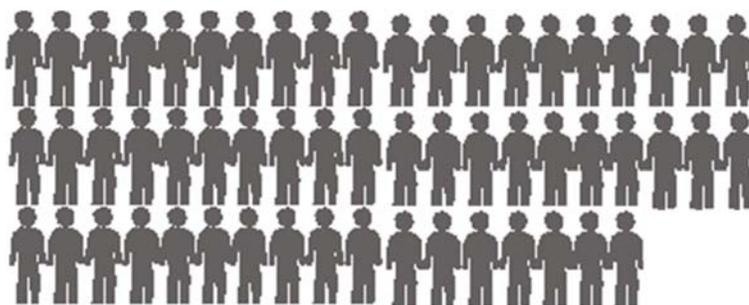
Data derived from Defense Manpower Data Center files.

Numbers shown are approximate.

# Maintenance Workforce

## Personnel Strength of Field- and Depot-Level Maintenance

~570K field-level maintainers



Includes approximately 27K National Guard technicians, 8K Reserve technicians, and 44K other civilian maintainers.

~79K depot-level maintainers



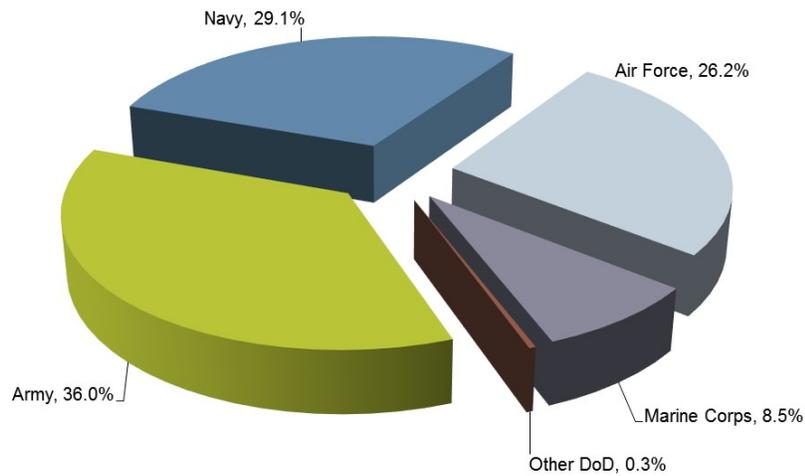
There are also 31K engineers, scientists, analysts, supply specialists, and other civilian non-maintainers essential to maintenance production.

Data derived Defense Manpower Data Center files.

Numbers shown are approximate.

# Maintenance Workforce

## DoD Maintainers by Military Service

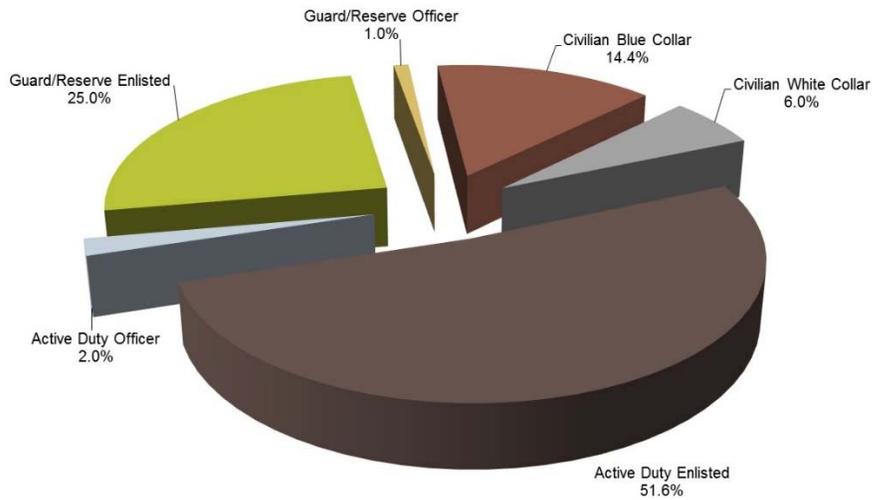


Service	Personnel (in thousands)
Army	222
Navy	179
Air Force	161
Marine Corps	52
Other DoD	2
Total DoD Maintainers	617

Numbers shown are approximate.

# Maintenance Workforce

## DoD Maintainers by Personnel Category

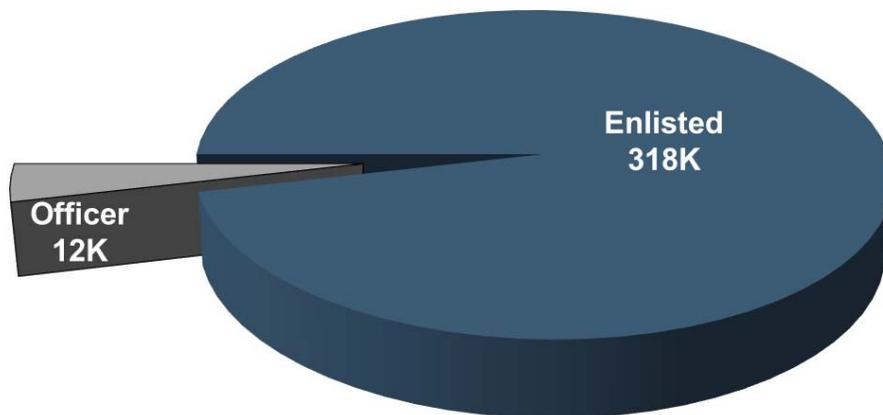


Category	Personnel (in thousands)
Active Duty Enlisted	318
Active Duty Officer	12
Guard/Reserve Enlisted	154
Guard/Reserve Officer	6
Civilian Blue Collar	89
Civilian White Collar	37
Total DoD Maintainers	617

Numbers shown are approximate.

# Maintenance Workforce

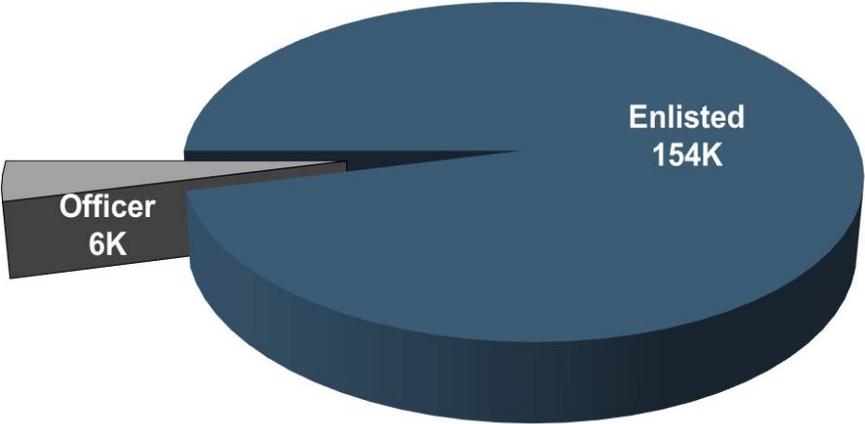
## Active Duty Maintainers



Officers		Enlisted	
57.3%	Commissioned Officers	64.8%	Mechanical/Electrical
42.7%	Warrant Officers	24.7%	Electronic
		4.2%	Craftsworkers
		6.3%	Others

# Maintenance Workforce

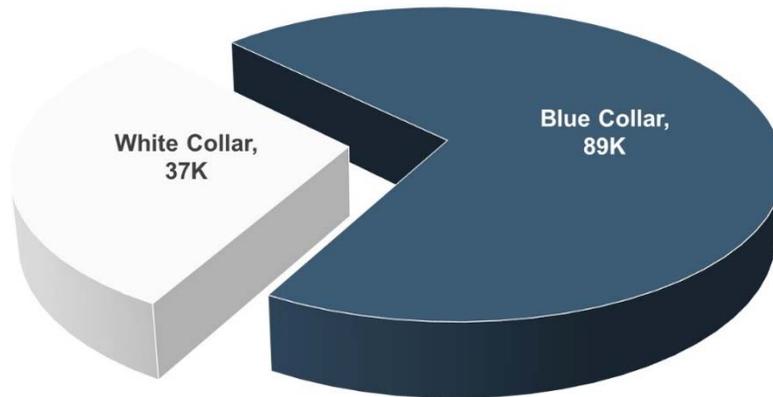
## National Guard and Reserve Maintainers



Officers		Enlisted	
47.8%	Commissioned Officers	69.8%	Mechanical/Electrical
52.2%	Warrant Officers	17.6%	Electronic
		8.0%	Craftworkers
		4.5%	Others

# Maintenance Workforce

## DoD Civilian Maintainers



White Collar		Blue Collar	
39.5%	Electrical/Mechanical & Electronic	61.4%	Mechanical/Electrical
19.0%	Production Management	25.1%	Craftworkers
9.3%	Communications & Radar	11.4%	Electronic
11.5%	Aviation Maintenance	2.0%	Others
20.6%	Others		



# Field-Level Maintenance

## Major Intermediate Maintenance Activities, Active Components

### Army

- 45 aviation maintenance companies
- 289 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)
- 19 shipboard AIMDs
- 8 ship/submarine intermediate maintenance facilities (IMFs)

### Air Force

- 57 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, 309 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 Theater Aviation Sustainment Maintenance Groups (TASMGs)

### **Army Reserve**

- Maintenance companies: 7 aviation, 35 ground, 1 watercraft
- Approximately 2,000 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**

- 107 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



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

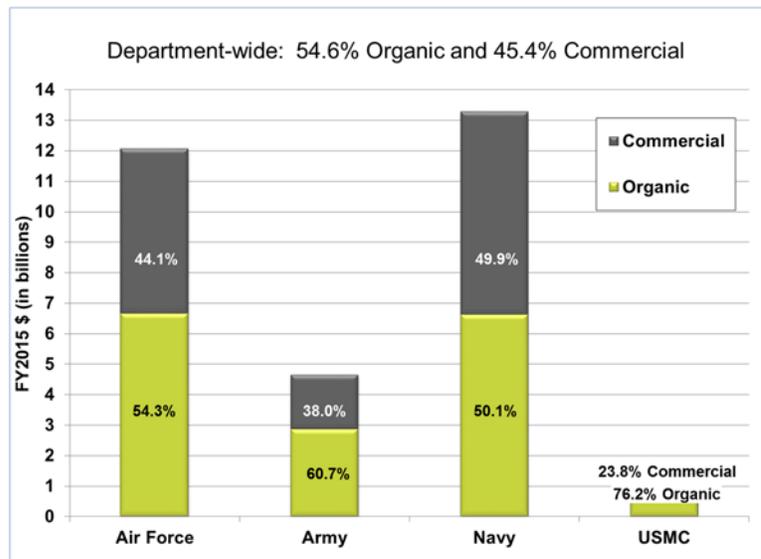
## Depot-Level Maintenance

### DoD Depot-Level Software Maintenance Activities by Organization and Location

Army	Navy
AMRDEC, Redstone Arsenal, AL	NAWC-WD, CA
ARDEC SEC Picatinny Arsenal, NJ	NAWC-AD, MD
CECOM SEC/CERDEC SED Aberdeen (APG), MD	NAWC-TSD, FL
CECOM SEC/CERDEC SED Ft. Huachuca, AZ	NSWC Crane, IN
CECOM SEC/CERDEC SED Ft. Sill, OK	NSWC Corona, CA
TARDEC Detroit Arsenal, MI	NSWC Dahlgren, VA
	NSWC Panama City, FL
	NUWC Newport, RI
	NUWC Keyport, WA
Air Force	SPAWAR Systems Center Pacific, CA
Ogden ALC, UT	SPAWAR Systems Center Atlantic, SC
Oklahoma City ALC, OK	
Warner Robins ALC, GA	

# Depot-Level Maintenance

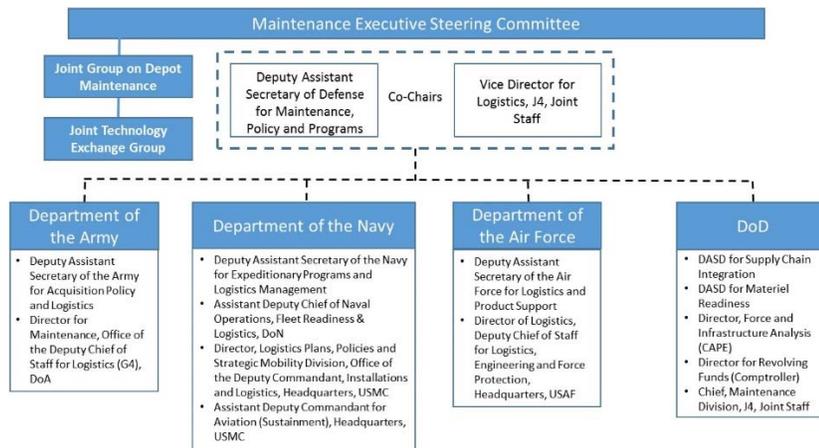
## Organic-Commercial Mix of DoD's Depot Maintenance Workload



Navy and Marine Corps as a Department: 51.3% Organic, 48.7% Commercial

# DoD Overview

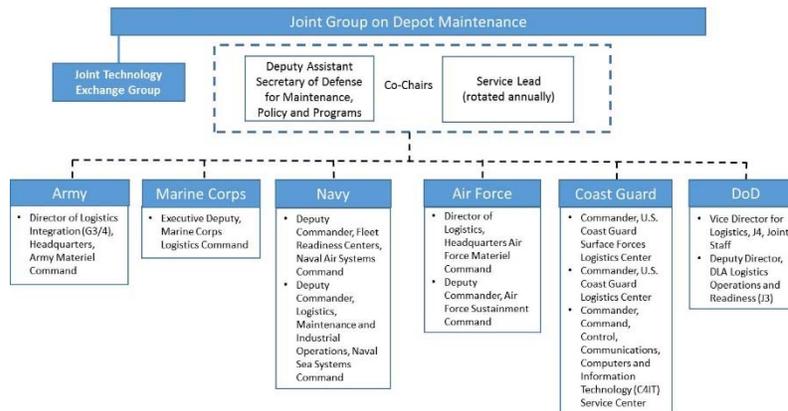
## DoD Maintenance Governance



**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.

# 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

## 2015 Phoenix Award Winner for Field-Level Maintenance



**Winner:** 801<sup>st</sup> Special Operations Aircraft Maintenance Squadron, Hurlburt Field, Florida  
United States Air Force

In 2014, the 801<sup>st</sup> Maintenance Squadron maintained 17 CV-22 Osprey aircraft:

- maintenance actions produced over 1,200 sorties and 3,500 flying hours, more than 28% of the 1<sup>st</sup> Special Operations Wing's mission;
- facilitated the safe transportation and recovery of three battle damaged CV-22 aircraft valued at \$267 million dollars for subsequent depot repair;
- achieved a deployed mission capable rate that exceeded the command standard by 24 percent; and
- authored 328 engineer requests resulting in modifications that saved over \$8 million dollars and 2,000 man-hours.

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

# Maintenance Awards

## Past Winners of the Phoenix Award

- 2014** Strike Fighter Squadron 211, USN
- 2013** D Company, 3<sup>rd</sup> Battalion, 82<sup>nd</sup> Aviation Regiment, 82<sup>nd</sup> 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

## 2016 Secretary of Defense Field-Level Maintenance Award Winners

### Small Category



Forward Support Co, 3<sup>rd</sup> BN, 7<sup>th</sup> Special Forces  
Group (Airborne)  
Eglin Air Force Base, Florida  
United States Army



31<sup>st</sup> Munitions Squadron  
Aviano Air Base, Italy  
United States Air Force

### Medium Category



Marine Aviation Logistics Squadron 29  
Marine Corps Air Station, New River,  
North Carolina  
United States Marine Corps



455<sup>th</sup> Expeditionary Aircraft Maintenance Squadron,  
455<sup>th</sup> Air Expeditionary Wing  
Bagram Airfield, Afghanistan  
United States Air Force

### Large Category



USS RONALD REAGAN (CVN-76)  
Forward Deployed, Yokosuka, Japan  
United States Navy



48<sup>th</sup> Maintenance Group  
Royal Air Force Lakenheath, England  
United States Air Force

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

# Maintenance Awards

## 2016 Robert T. Mason Award for Depot Maintenance Excellence



**Winner:** USS ALEXANDRIA Engineered Overhaul Project Team  
Portsmouth Naval Shipyard,  
Portsmouth, New Hampshire  
United States Navy

During 2015, the USS ALEXANDRIA (SSN-757) Engineered Overhaul Project Team and the ship's crew:

- executed a 280,000 man-day overhaul and delivered the ship back to the fleet two weeks ahead of schedule and \$9 million under budget – the Navy's fastest ever Engineered Overhaul;
- was able to meet every major milestone on or ahead of schedule with the best-ever quality and safety record;
- returning the USS ALEXANDRIA to the fleet early improved the quality of life for the ship's crew and made the ship's post-overhaul transition significantly less challenging and stressful; and
- upheld the highest traditions of the United States Naval Service and the mission of the Department of Defense.

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

# Maintenance Awards

## Past Winners of the Robert T. Mason Award

- 2015** Test Measurement and Diagnostic Equipment Program,  
Marine Depot Maintenance, MCLB, Albany, Georgia
- 2014** F-22 Raptor Depot Maintenance Team, Ogden Air  
Logistics Complex, Utah
- 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

### 2016 Secretary of Defense Award for Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces



#### OPERATIONAL AWARD WINNER

438<sup>th</sup> Air Expeditionary Wing  
9<sup>th</sup> Air Expeditionary Task Force  
Kabul International Airport and  
Kandahar Air Field  
United States Air Force Central Command

During 2016, the 438th Air Expeditionary Wing:

- provided maintenance training, advice, and assistance to the Afghan Air Force which was comprised of 56 MI-17, 16 MD-530 rotary wing aircraft, as well as 26 C-208 and four C-130 fixed wing aircraft,
- inspired the Afghan Air Force to mature its maintenance force and capability through innovative training, dedicated advising, and timely assistance,
- was instrumental in the Afghan Air Force generating 121 percent more missions, moving 142 percent more passengers and 276 percent more casualty evacuation movements than in the previous period of performance; and
- assisted the Afghan Air Force in completing 22,267 flight hours spread across 102 aircraft of five different types.

This Excellence in Maintenance Training, Advice, and Assistance of Foreign Security Forces Award is 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

**2015**

### **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**

438<sup>th</sup> Air Expeditionary Wing

9<sup>th</sup> Air Expeditionary Task Force

Kabul International Airport and Kandahar Air Field

United States Air Force Central Command

317<sup>th</sup> Support maintenance Company

18<sup>th</sup> Combat Sustainment Support Battalion

16<sup>th</sup> Sustainment Brigade

United States Army Europe

# 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
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
MCLB	Marine Corps Logistics Base
MPP	Maintenance Policy and Programs
MR	Materiel Readiness
MXG	Maintenance Group
NAS	Naval Air Station

# Acronyms

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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
TASMG	Theater Aviation Sustainment Maintenance Group
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

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## Explanatory Notes

All facts and statistics depicted in the *2016 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 FY2015 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/>