



Defense Acquisition Workforce Key Information

Engineering

As of FY20Q1 (31 Dec 2019)



Engineering Total Workforce

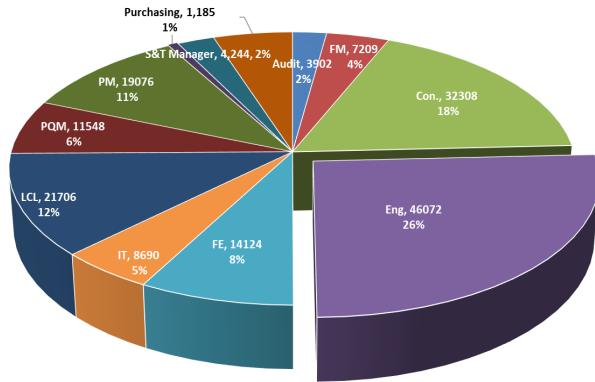


Engineering





AWF by Component and Career Field



FY2020Q1	Army	Navy	Marine Corps	Air Force	4th Estate	Totals	% Total
Auditing	-	-	-	-	3,902	3,902	2.2%
Business - CE	260	565	34	528	99	1,486	0.8%
Business - FM	1,779	2,381	178	2,243	628	7,209	4.0%
Contracting	8,533	6,405	564	8,374	8,432	32,308	17.8%
Engineering	9,189	24,334	328	10,007	2,214	46,072	25.4%
Facilities Engineering	6494	6749	35	741	105	14124	0.07799
Information Technology	1973	3816	226	1524	1151	8690	0.04798
Life Cycle Logistics	6880	6680	684	3918	3544	21706	0.11985
Production, Quality and Man	1391	3908	25	489	5735	11548	0.06376
Program Management	3539	5904	786	6868	1979	19076	0.10533
Property	56	72	-	20	295	443	0.2%
Purchasing	246	381	31	43	484	1185	0.00654
S&T Manager	687	528	3	2,883	143	4,244	2.3%
Test and Evaluation	1,933	3,255	135	3,401	364	9,088	5.0%
Unknown/Other	7	2	1	5	8	23	0.0%
Totals	42,967	64,980	3,030	41,044	29,083	181,104	
Component %	24.1%	36.5%	1.7%	23.0%	16.3%		



Engineering Workforce Historical Size by Agency FY08 – FY19



Engineering Defense Acq Workforce Agency	FY08	FY10	FY12	FY14	FY16	FY18	FY19	% Change Since FY08	% Change Since FY18
Navy	16,353	18,932	19,121	19,423	21,623	23,678	24,470	50%	3%
MARINE CORPS	223	338	377	374	354	336	327	47%	-3%
AIR FORCE	6,429	7,625	8,570	8,473	9,139	9,535	9,974	55%	5%
ARMY	10,769	10,644	9,810	8,981	9,140	9,160	9,207	-15%	1%
DCMA	282	813	974	1,157	1,271	1,238	1,279	354%	3%
MDA	281	623	644	605	601	604	615	119%	2%
DISA	89	58	69	74	70	89	85	-4%	-4%
NRO	-	-	-	-	66	64	80		25%
DAU	33	46	49	40	45	48	47	42%	-2%
DTRA	7	27	35	44	47	21	18	157%	-14%
DMEA	-	29	23	20	32	27	39		44%
OSD	31	25	21	23	22	16	14	-55%	-13%
DLA	19	16	11	11	13	12	13	-32%	8%
DHA	2	9	10	6	4	9	9	350%	0%
JCS	-	-	12	10	7	8	6		-25%
DeCA	-	-	-	-	3	4	5		25%
TRMC	-	-	1	1	1	1	1		0%
DTIC	1	-	-	-	-	-	-	-100%	
DSCA	1	-	-	-	-	-	-	-100%	
IG	1	-	-	-	-	-	-	-100%	
ASD	-	4	1	-	-	-	-		
TOTAL	34,521	39,189	39,728	39,242	42,438	44,850	46,189	↑ 30%	↑ 3%



Engineering Workforce Historical Size by Agency (Quarterly)



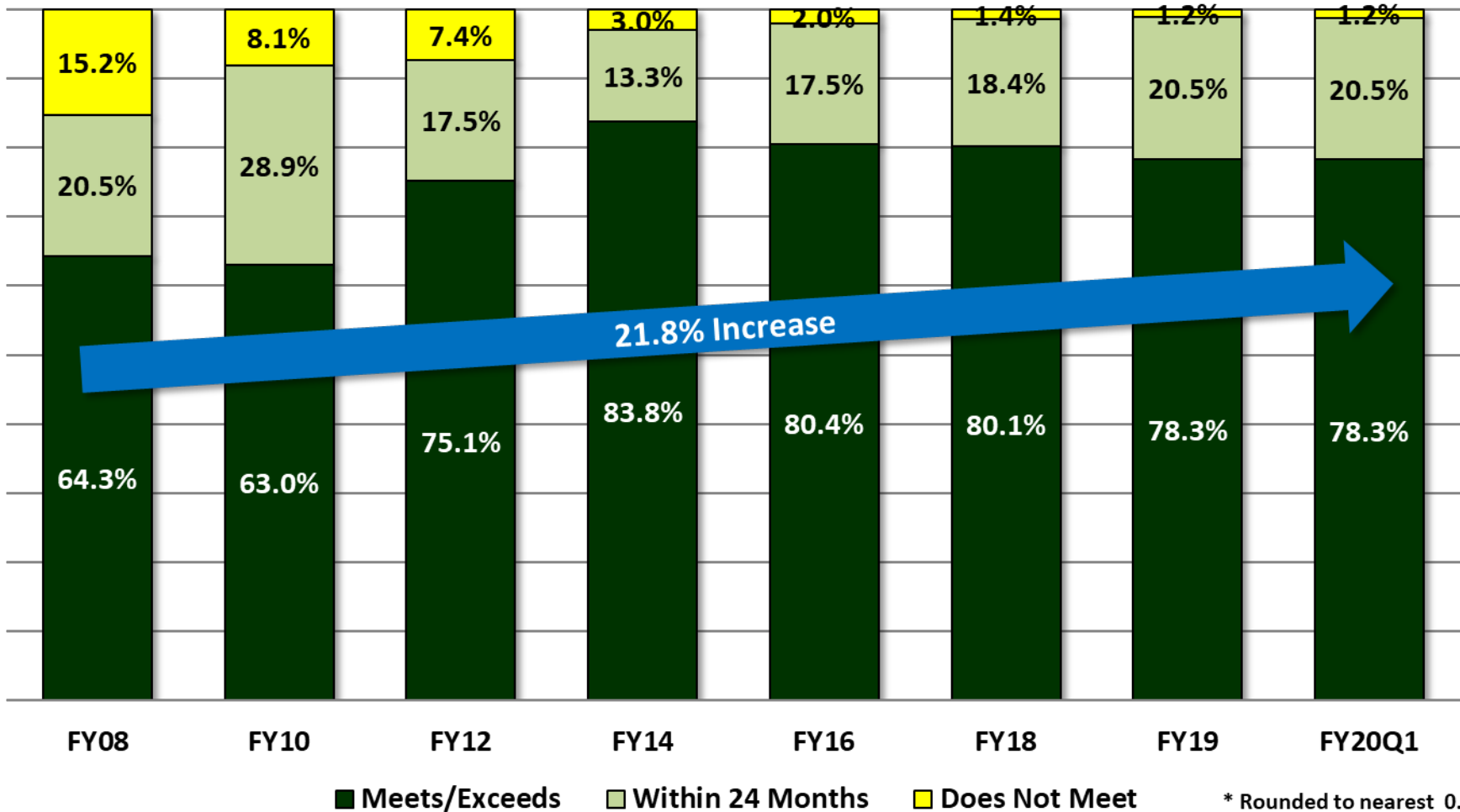
Engineering Defense Acq Workforce Agency	FY17Q4	FY18Q1	FY18Q2	FY18Q3	FY18Q4	FY19Q1	FY19Q2	FY19Q3	FY19Q4	FY20Q1	% Change Since FY18Q4
Navy	22,297	22,276	22,376	22,726	23,678	23,650	23,608	23,834	24,470	24,334	3%
MARINE CORPS	341	339	336	342	336	328	325	321	327	328	-2%
AIR FORCE	9,276	9,178	9,271	9,385	9,535	9,604	9,652	9,572	9,974	10,007	5%
ARMY	9,096	9,084	9,060	9,024	9,160	9,148	9,094	9,090	9,207	9,189	0%
DCMA	1,229	1,226	1,231	1,220	1,238	1,223	1,241	1,263	1,279	1,279	3%
MDA	603	597	594	594	604	602	606	609	615	607	0%
DISA	66	68	66	68	89	88	87	83	85	85	-4%
NRO	78	78	72	56	64	64	69	75	80	83	30%
DAU	43	46	47	48	48	48	48	49	47	49	2%
DTRA	35	31	30	30	21	18	18	19	18	19	-10%
DMEA	31	32	31	29	27	27	27	33	39	43	59%
OSD	22	22	22	21	16	16	14	16	14	-	-100%
DLA	14	14	14	15	12	12	13	12	13	9	-25%
DHA	8	8	9	9	9	10	10	9	9	9	0%
JCS	6	6	8	7	8	8	8	7	6	5	-38%
DeCA	3	4	4	5	4	3	4	5	5	-	-100%
TRMC	1	1	1	1	1	1	1	1	1	-	-100%
TOTAL	43,149	43,010	43,172	43,580	44,850	44,850	44,825	44,998	46,189	46,046	↑ 3%



Engineering Manager Historical DAWIA Certification FY08 – FY20



Engineering

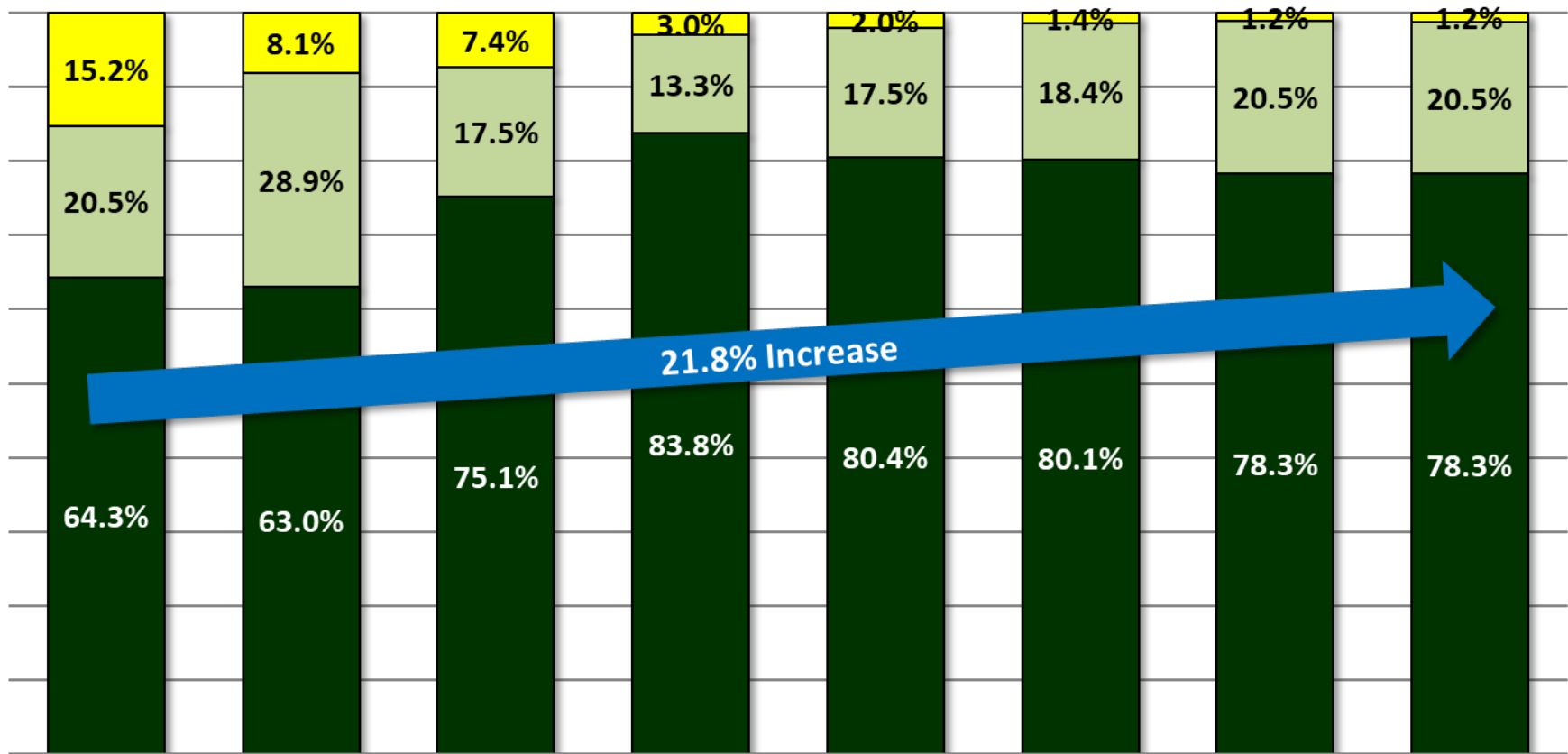




Engineering Manager Historical (Quarterly) DAWIA Certification



Engineering



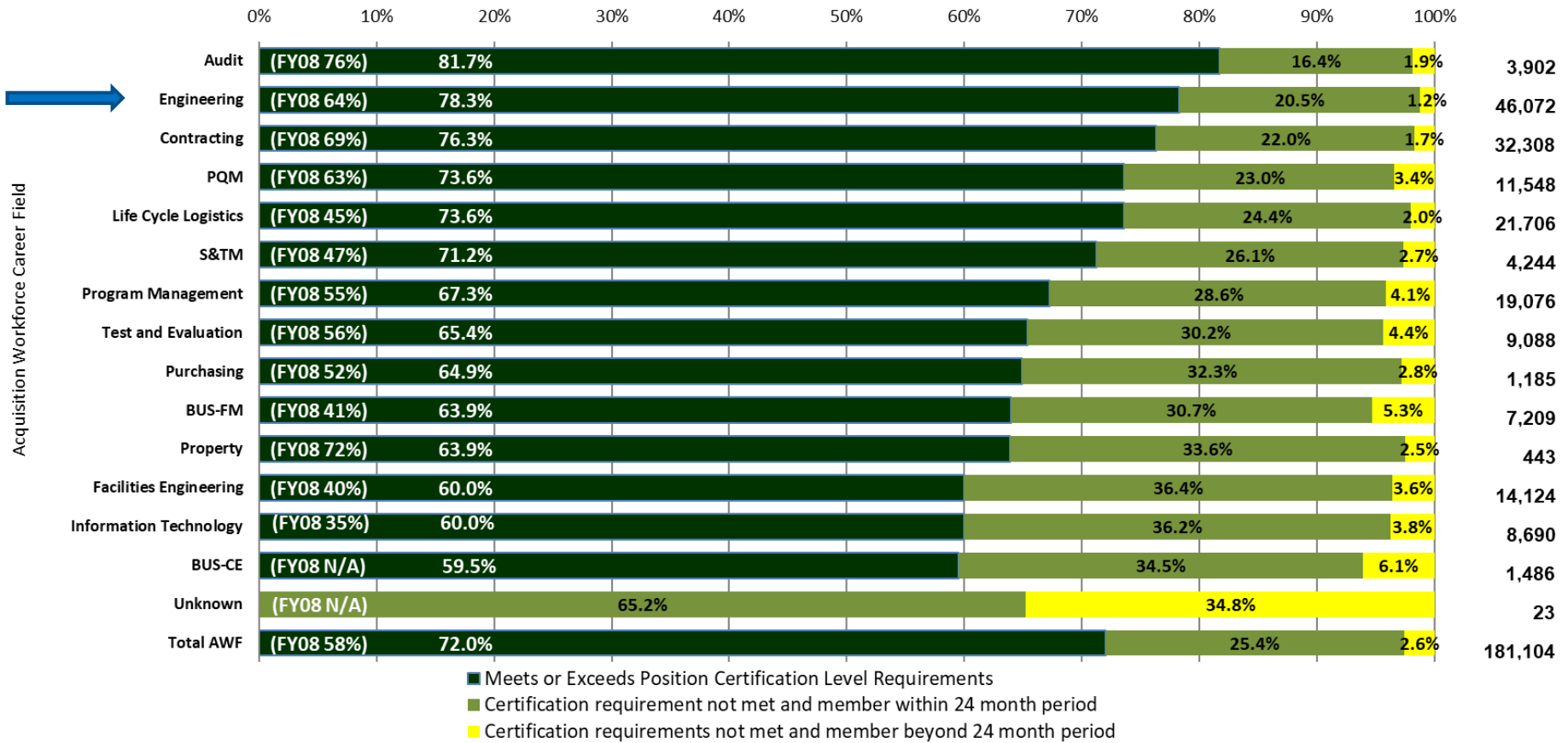
■ Meets/Exceeds ■ Within 24 Months ■ Does Not Meet * Rounded to nearest 0.1%



DAWIA Certification by Career Field



Certification Level "Meet/Exceed" Rates by Career Field AWF (FY20Q1)

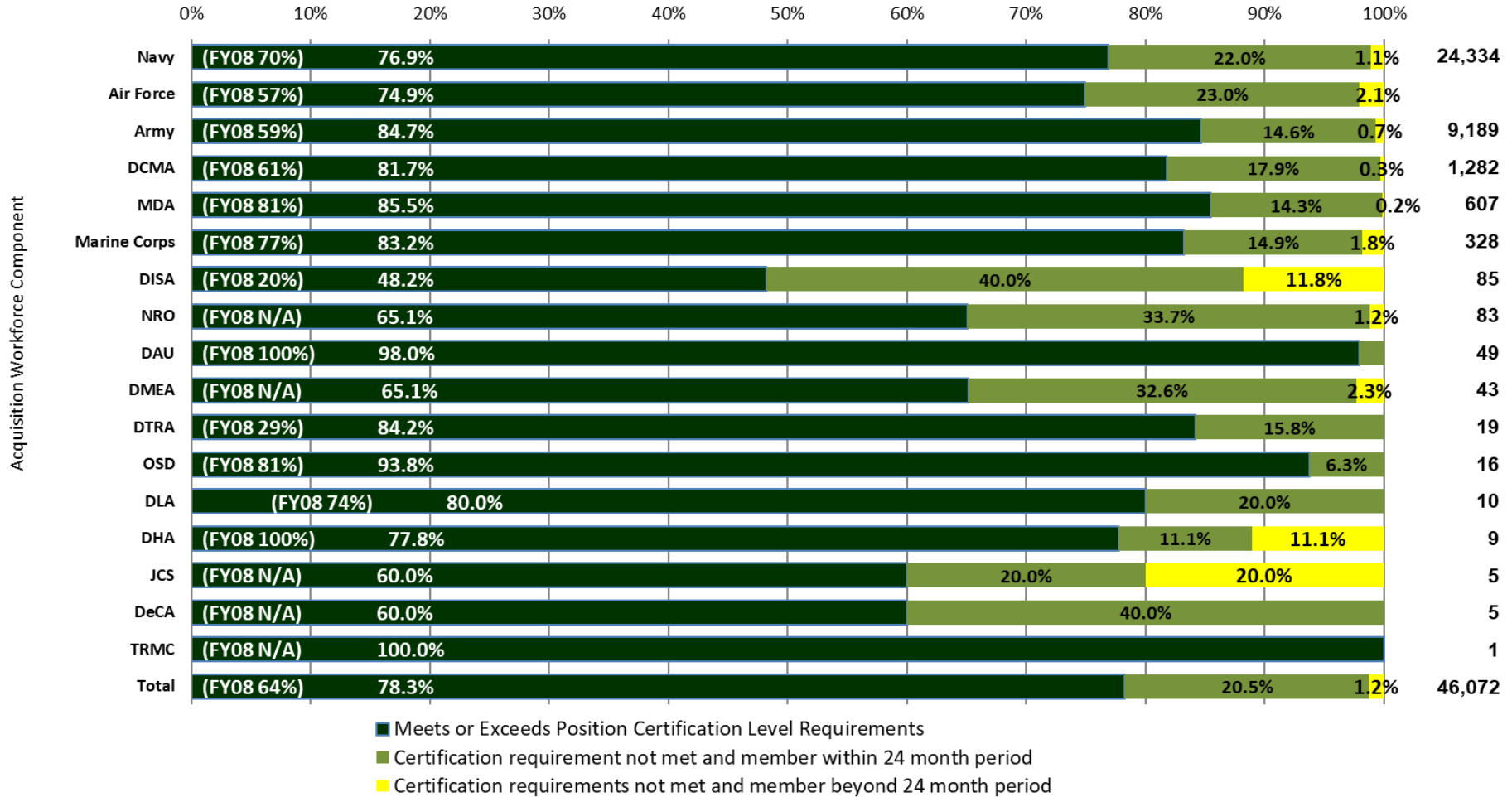


■ Meets or Exceeds Position Certification Level Requirements
■ Certification requirement not met and member within 24 month period
■ Certification requirements not met and member beyond 24 month period



Engineering DAWIA Certification by Component

Certification Level "Meet/Exceed" Rates by Component Engineering (FY20Q1)





Engineering DAWIA Certification Matrix + Bench Strength

Required Certification Level	Achieved Certification Level				FY2020Q1 TOTAL	% Meets Certification Requirement
	No Level Achieved	Level I	Level II	Level III		
Level I	4,169	5,514	1,596	1,503	12,782	67.4%
Level II	1,955	2,104	7,477	6,487	18,023	77.5%
Level III	630	299	858	13,477	15,264	88.3%
Unspecified	2	1	-	-	3	
FY2020Q1 TOTAL	6,756	7,918	9,931	21,467	46,072	78.3%
	14.7%	17.2%	21.6%	46.6%		

No Level Achieved includes those within the 24 month grace period

Bench Strength			
Org	# Meet or Exceeds	% Meets or Exceeds*	Career Field Rank
DAW	130,398	72.0%	
Army	32,897	76.6%	
Navy	46,049	70.9%	
Marine Corp	1,999	66.0%	
Air Force	27,019	65.8%	
4th Estate	22,434	77.1%	
Engineering	36,054	78.3%	1 of 14

** Based on population total without unspecified positions

Certification Requirement	Meets	Within 24 Months	Does Not Meet	DAW TOTAL	
Level I	8,613	4,101	68	12,782	27.7%
Level II	13,964	3,731	328	18,023	39.1%
Level III	13,477	1,608	179	15,264	33.1%
Unspecified	-	3	-	3	0.0%
Engineering TOTAL	36,054	9,443	575	46,072	
	78.3%	20.5%	1.2%		

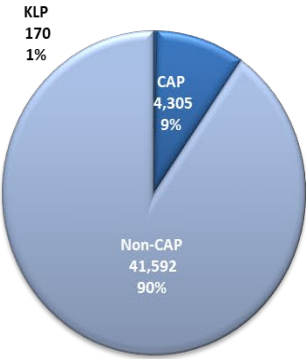
 = Compliance
 = Exceeds Requirements

* NOTE: Rounded to nearest 0.1%

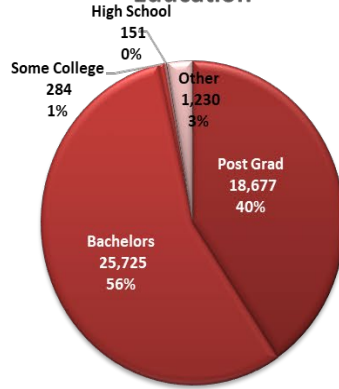


Demographics

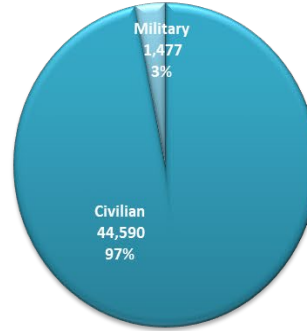
KLP - CAP - Non-CAP



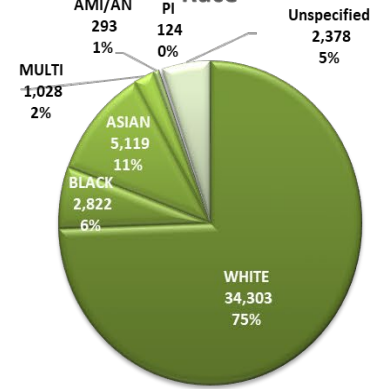
Education



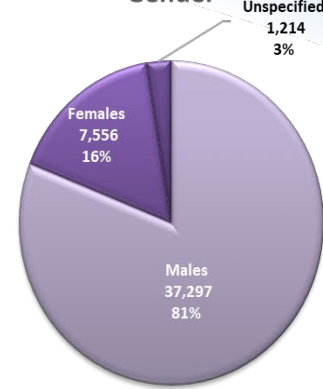
Civilian / Military



Race



Gender



Occupied Position Type	ENG TOTAL		Entire AWF	
Key Leadership Positions (KLPs)	170	0.4%	1,238	0.7%
Critical Acquisition Positions (CAPs) *	4,305	9.3%	16,971	9.4%
Non-CAP Positions	41,592	90.3%	162,896	89.9%
Unknown	-	0.0%	-	0.0%
TOTAL	46,067		181,105	

* = Number of CAPs, excluding KLPs (no double counts)

Race	ENG TOTAL		Entire DAW	
WHITE	34,303	74.5%	128,458	70.9%
BLACK	2,822	6.1%	21,174	11.7%
ASIAN	5,119	11.1%	12,209	6.7%
MULTI	1,028	2.2%	5,659	3.1%
AMI/AN	293	0.6%	1,214	0.7%
PI	124	0.3%	949	0.5%
Unspecified	2,378	5.2%	11,442	6.3%
TOTAL	46,067		181,105	

Highest Level of Education	ENG TOTAL		Entire AWF	
Post Grad	18,677	40.5%	71,052	39.2%
Bachelors	25,725	55.8%	77,690	42.9%
Some College	284	0.6%	12,228	6.8%
High School	151	0.3%	12,785	7.1%
Other	1,230	2.7%	7,350	4.1%
TOTAL	46,067		181,105	

Gender	ENG TOTAL		Entire DAW	
Males	37,297	81.0%	123,123	68.0%
Females	7,556	16.4%	51,093	28.2%
Unspecified	1,214	2.6%	6,889	3.8%
TOTAL	46,067		181,105	

Type	ENG TOTAL		Entire AWF	
Civilian	44,590	96.8%	164,902	91.1%
Military	1,477	3.2%	16,201	8.9%
TOTAL	46,067		181,103	



Engineering Size by Occupational Series



Civilian Occupational Series	ENG TOTAL	
0855 - Engineer, Electronics	10,428	23.4%
0801 - Engineer, General	9,322	20.9%
0830 - Engineer, Mechanical	7,168	16.1%
1550 - Computer Scientist	4,719	10.6%
0861 - Engineer, Aerospace	3,154	7.1%
0854 - Engineer, Computers	2,792	6.3%
0850 - Engineer, Electrical	1,794	4.0%
1515 - Operations Research Analyst	689	1.5%
1310 - Physicist	643	1.4%
Other	3,881	8.7%
TOTAL CIVILIAN	44,590	Civilians