



Current Topics in T&E Part II

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Overview



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- Chief Development Tester
- T&E Certifications
- Workforce Management Branch Roles
- AFI 99-103 changes



Chief Development Tester (CDT)



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- **OUSD (AT&L) Memo, 8 Nov 2013**
- **Title 10, U.S.C. Section 139b**
 - **MDAP & MAIS (ACAT 1 & 1A) programs**
 - **Mandatory Key Leadership Position (KLP) dedicated to single ACAT program**
 - **Chief Developmental Tester**
 - » **Must be level III in functional area, prior to assignment**
 - » **Minimum of 8 years acquisition experience**
 - » **KLP Qualification Board will convene in 2014**
 - » **Pre-screened candidates require SES/GO endorsement**
 - » **Waiver by exception, approved by CAE**
 - » **Not delegated**
- **99-103, Paragraph 3.16**



CDT Current Status



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- **Working with AF T&E & AFMC/A3 on implementation**
 - Identified need for CDT positions for MDAP & MAIS programs
 - Test Managers not currently KLP
 - Few AFLCMC candidates meet qualifications (?)

Stay Tuned.....More to Come



T&E Certifications



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Level I

ACQ 101

Fundamentals of Systems Acquisition Management

CLE 023

Modeling and Simulation for Test and Evaluation

CLE 025

Information Assurance

CLE 035

Intro to Probability & Statistics

SYS 101

Fundamentals of Systems Planning, Research, Development and Engineering

CLE 025

Information Assurance

TST 102

Fundamentals of Test & Evaluation

1 year T&E Experience

Level II

ACQ 201A

Intermediate Systems Acquisition

ACQ 201B

Intermediate Systems Acquisition (R)

CLE 003

Technical Reviews

SYS 202

Intermediate Systems Planning, Research, Development, and Engineering, Part I

CLE 029

Testing in a Joint Environment

TST 204*

Intermediate Test & Evaluation (R)

*Previously TST 203

CLE 301

Reliability and Maintainability

CLR 101

Introduction to Joint Capabilities, Integration & Development System

2 years T&E Experience



= Acquisition Training



= Functional Training

Level III

CLB 009

Planning, Programming, Budgeting, and Execution and Budget Exhibits

CLL 015

Product Support Business Case Analysis (BCA)

CLM 014

IPT Management and Leadership

CLM 031

Improved Statement of Work

TST 303

Advanced Test and Evaluation (R)

- Acquisition Training identified at level II must have been completed
- Functional Training identified at level II must have been completed

4 years T&E Experience



Workforce Hot Topics



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- **APDP levels tied to grade of position**
- **Adjudication Packages**
 - Recommend sending through AQT prior to submittal
- **PME**
 - Command-wide push on accomplishment
- **CL Points**
 - Deputy PEOs will be notified of non-concurrence
 - May impact receipt of performance awards



Workforce Management Branch Overview



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- **APDP Monitoring and Support**
- **Competitive Training Process and Approval**
- **Non-Competitive Training**
- **Career counseling, gap analysis**
- **Awards**
- **Trainee Development**
- **Leadership Development**
- **Reorganization (OCR)**
- **Authorization Management (UMDs, ACRs)**
- **Fill Actions**
- **Recruiting/hiring**
- **Performance Management**
- **Functionally Manage Workforce**



AFI 99-103

October 2013 Revision Review

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Purpose/ ROE



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- **Provide a “crash-course”, top-level overview of the changes to AFI 99-103**
 - CTA works with programs individually to address “unique” situations
- **Save questions/ comments for the end**
 - Please keep questions general in nature

If we don't have the answer now, we will get it for you



Background



- **Released October 2013**
- **OPR: AF/TEP**
- **Adds 12 new topics**
- **Deletes 4 topics**
- **Updates/ clarifications in 10 areas**
 - **Movement of subjects to better align with standard acquisition timelines**



AFI 99-103 Implements



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- ***AFPD 99-1 Test & Evaluation Process***
- ***DoDI 5000.01 The Defense Acquisition System***
- ***DoDI 5000.02 Operation of the Defense Acquisition System***
- ***CJCSI 3170.01 Joint Capabilities Integration & Development***



Other AFIs



- ***AFI 10-601 Operational Capability Requirements Development***
- ***AFI 63-101/20-101 Integrated Lifecycle Management***
- ***AFI 33-210 AFCAP***
- ***AFI 91-202 USAF Mishap Prevention Program***



Command Level Supplements



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- **AFMCI 99-103 *Test Management****
- **AFI 91-202 AFMC Sup 1**
- **Other Command Supplements as applicable**
 - **When in Rome, be aware of what the Romans do**

*** Currently in revision as a result of AFI 99-103**



Important Note



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- **DoDI 5000.02 is currently *interim***
 - Final update due by late May
- **AFI 99-103 will need further updates**
- **AFMCI 99-103 will need further updates**

In the event of conflicts - the DoDI takes precedence
Questions? Contact the CTA



Additions



- **Office of the Deputy Assistant Secretary of Defense for Developmental Test and Evaluation (DASD(DT&E))**
- **Integrated Test Policy & definition**
- **TEMP changes vs administrative updates**
- **MAJCOM T&E Focal Point implementation**
- **T&E of training systems**
- **Scientific Test & Analysis Techniques (STAT)**



Additions



- **Reliability growth planning**
- **Rapid Acquisition & Urgent Operational Needs**
- **Unified Capability (UC) T&E**
- **Emissions Security (EMSEC)**
- **Platform Information Technology (PIT)**
- **Tier waiver authority for Compliance Items**
- **Chief Developmental Tester (CDT)**



DASD(DT&E)



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- **Currently Dr. C. David Brown**
- **Overall duties:**
 - **Focal point for all policy, practice, procedures, and acquisition workforce issues relating to DT&E within DoD**
 - **See DoDI 5134.17, *Deputy Assistant Secretary of Defense for Developmental Test and Evaluation*, Enclosure 1 for full list of responsibilities, relationships, and authority**
- **Works w/ DOT&E to:**
 - **Provide OSD approval of TEMP & TES**
 - **Publish the OSD T&E Oversight list**



Integrated Test Policy



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- **Test management & design concept - not a new type of T&E!**
 - Structures T&E to reduce time needed to field effective & suitable systems
 - Provides the right information to decision makers throughout the lifecycle
- **Collaborative planning & execution of T&E obtains shared data in support of independent analysis, evaluation, and reporting by all stakeholders**
 - Integrates requirements generation & systems engineering
 - Evaluates interoperability of system/family-of-systems
 - Integrates & minimizes gaps between DT (contractor & gov) and OT



Integrated Test Policy



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- **Intentionally designed early into T&E strategy**
 - Considers entire program lifecycle
 - Helps ID design improvements early
 - Reduces OT resources need
 - Helps control life cycle costs
- **Covers integrating all types of T&E**
 - Modeling & Simulation
 - Contractor tests
 - DT/OT
 - Interoperability tests
 - Information Assurance (IA)/cybersecurity tests
 - Other Services testing



TEMP



- **Updates vs administrative changes**
- **Per AFI 99-103, 5.14.5.1.**
 - *“Updates are any revisions that alter the substantive basis of the MDA certification or otherwise cause the program to deviate significantly from the material previously presented, or if the conditions that formed the basis for the original agreement have changed.”*
- **Administrative changes are**
 - *“...small corrections or modifications to the Temp”*
 - *“...do not impact T&E execution & do not require full staffing”*
 - Provide an errata page listing admin. changes

CTA is working on clarification with AF/TE



MAJCOM T&E Focal Point



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- **HQ AFMC**

- Establish policy for and maintain a T&E focal point (i.e., on-site test authority or equivalent office) that:
 - Provides T&E support & advice at the command's product centers and complexes
 - Address T&E needs at all PMRs
- Integrated Test Team (ITT) membership *should* include the Center/Complex level T&E focal point

CTAs are the T&E focal point



T&E of Training Devices



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- Training system concepts and requirements must be included in acquisition strategy
- Training devices should be fielded concurrently with the platforms they represent
- Refers to AFI 36-2251, *Management of Air Force Training Systems*,
 - Gives direction/guidance for simulator certification (SIMCERT) & simulator validation (SIMVAL) processes to be included in acquisition of training devices
- This is a type of specialized T&E that is *in addition* to normal DT/OT



Scientific Test & Analysis Techniques (STAT)



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- **Scientifically-based test and analysis techniques and methodologies for designing and executing tests (i.e. Design of Experiments (DOE))**
 - Early test planning consideration topic
 - STAT should be used when appropriate/feasible with *existing* test resources
 - Top-level description in early TEMP & SEP at MS B
 - Conceptual designs not part of TEMP & SEP, but should be available for review during coordination of these documents
 - For more info: Guidance on the use of Design of Experiments (DOE) in Operational Test and Evaluation, DOT&E, October 19, 2010



Reliability Growth Planning



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- **Starts with tester participation on High Performance Team (HPT)**
 - Ensure operational reliability requirements are correctly written & reflect realistic, testable conditions
 - Work with SE to determine resources, amount, and type of T&E required
- **Outlined in the TEMP, SEP & LCSP**
- **For more info: AFI 63-101/20-101 & DOT&E memo, *Procedure for Assessment of Reliability Programs by DOT&E Action Officers* (29 May 09)**



Rapid Acquisition & Urgent Need T&E



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- **Requires expedited testing & reporting**
- **Use AFI 63-114, *Quick Reaction Capability Process*, to guide T&E efforts**
- **Testers must be very familiar with process**
 - Higher risk levels and shorter timelines
 - Extensive tailoring and streamlining
- **PEO may require the program to complete traditional acquisition requirements if developed into an enduring program**



Unified Capability (UC) T&E



- **Identified as a specialized type of T&E**
- **Covers interoperability & information assurance**
 - **Includes integrated voice, video, and/or data services across secure networks (i.e., satellites or the Global Information Grid (GIG))**
- **Product is a UC Certification**
- **AFSPC appoints the USAF UC test org**



Emissions Security (EMSEC) T&E



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- **Identified as a specialized type of T&E**
- **Assesses against the requirement to control the compromise of classified electronic emissions**



Platform Information Technology (PIT)



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- **A special purpose IT system that employs computing resources that are physically embedded in, dedicated to, or essential to real time mission performance of a host system**
- **Describes specialized processes to use for acquisition of these systems**
- **AFLCMC/EZAS, Cybersecurity Engineering Group, is the POC for this process**
- **See AFI 8500.1, *Cybersecurity* for details**



Waiver for Compliance Items(CI)



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- **Describes various waiver authorities and delegation rules**
- **Uses a Tier waiver authority number**
 - **Seen in Chp 3, Responsibilities, of Ops MAJCOMs, DRUs & FOAs and below**
 - **“T-0” = requirement external to USAF**
 - **Waiver requests processed through command channels to AF/TEP**
 - **“T-1” = waiver authority is the MAJCOM/CC, with concurrence of AF/TE**



Chief Developmental Tester (CDT)



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- **SAF/AQ ensures a CDT is designated for each MDAP and MAIS program**
- **MAJCOM (AFMC/AFSPC) and PEO will assist ITTs with identifying CDT candidates after *MDD***
 - Ensures CDTs are designated as required at all centers/complexes
- **PM will ensure the CDT is given the proper responsibilities and authorities**

More to come on CDT identification & assignments



Chief Developmental Tester (CDT)



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- **Overreaching function of a CDT:**
 - Responsible to the PM for *all* issues regarding T&E, to include the planning and execution of DT&E, and *support to OT&E* of fielded systems *throughout the life cycle* of each system
- **CDT and Test Manager generally perform the same functions**
 - CDT performs functions for and assigned to more critical programs (MDAPs/MAISs/“as directed”)
 - Has same level of authority as other functionals (i.e. EN, LG, PK, etc)
 - CDT = KLP = higher qualifications
 - In AFI, CDT term includes TMs



Deleted



- **Chapter 8: Space Systems Testing**
 - Differences are now indicated throughout AFI
- **Terms ‘Seamless Verification’ and ‘Key Decision Point’ deleted due to updated statutory language**
- **Program Management Directive (PMD) references**
- **USAF Range Precedence Rating System**
 - Test Center now the POC



Modified/Expanded



- **Reorganized many areas to flow better with acquisition timelines**
- **“T&E strategy” replaced with “strategy for T&E” when referring to the overarching T&E plans**
- **Integrated Test Concept better defined**
 - Covered in Integrated Test Policy
- **LDTO replaces RTO**
 - Reflects new statutory language



Modified/Expanded



- **TEMP alternative flexibility**
 - OSD T&E Oversight = stand-alone TEMP
 - Others can be tailored/combined w/ other docs, with MDA approval
- **Expanded references/direction in:**
 - Information Assurance
 - Security Testing
 - System Certification & Accreditation
 - Strategies for archiving T&E data
 - Due dates for Multi-Service OT&E reports



Notable Topics



- **Requesting Operational MAJCOM Support for DT&E**
 - **Must send request through MAJCOM HQ T&E office**
 - **PMO must ensure applicable T&E technical & safety reviews are completed**
 - **CTA can assist with what this means based on program specifics**
- **New language now indicates the PM may delegate co-chairmanship of ITT to a T&E representative**
 - **CDT / TM**



Conclusion



- **This presentation is not a valid substitute for actually reading AFI 99-103**
 - **Test Managers should thoroughly review the new AFI**
- **AFLCMC/AQT (the CTA) can help “run to ground” questions on T&E policy**



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AFI 99-103 Review

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Questions??



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AFI 99-103 Review



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BACK UPS



BACK UPS



• AFI36-1301, Attach 2:



Figure A2.1. DoD/DAWIA Position Qualification Requirements for KLPs

Acquisition Position Standards #	GO/SES	PEO / DPEO / DAO *	ACAT I	ACAT I	ACAT II	SCO / SCCO **	Other KLP
			PM	DPM	PM		
Years of Acquisition Experience	10	10	8	6	6	-	-
Years of Contracting Experience	-	-	-	-	-	4	-
Years on a CAP	4	4	-	-	-	-	-
Years in a SPO	-	-	2	2	-	-	-
Acquisition Corps member	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Served as ACAT PM or DPM	-	Yes	-	-	-	-	-
Position Functional Certification at Lvl III (DoD policy--Not Statutory)	Yes	PM	PM	PM	PM	Con	Yes
Statutory Training Requirement	-	PMT 402	PMT 402	PMT 402	PMT 402	Lvl III Req'd Tng	-

* AF applies PEO standard to Deputy PEOs and Designated Acquisition Officials (DAOs)

** SCO/SCCOs must complete all required courses for Level III contracting certification. AF applies SCO standard to SCCO positions

Position standards may be waived by the responsible SAE, or by the DACM if authority is delegated by the SAE

Note: Position requirements other than certification must be met at the time of assignment, unless the individual selected is an Acquisition Corps member and can satisfy the requirements within 6 months. Level III certification in AT&L functional category is required within 24 months of assignment.