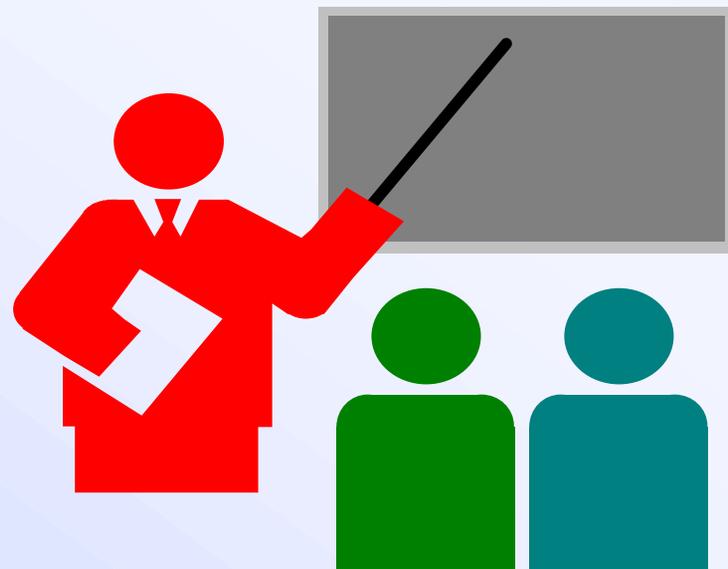




Testing Procedure Session

Presented By

DSDC - BQ





Testing Procedure Session

Presenters :

Clair Overley

DSN 850 - 9327

coverley@dcdc.dla.mil

Derima King

DSN 850 - 9734

dking@dcdc.dla.mil

Bonnie Coleman

DSN 850 - 9219

bcoleman@dcdc.dla.mil

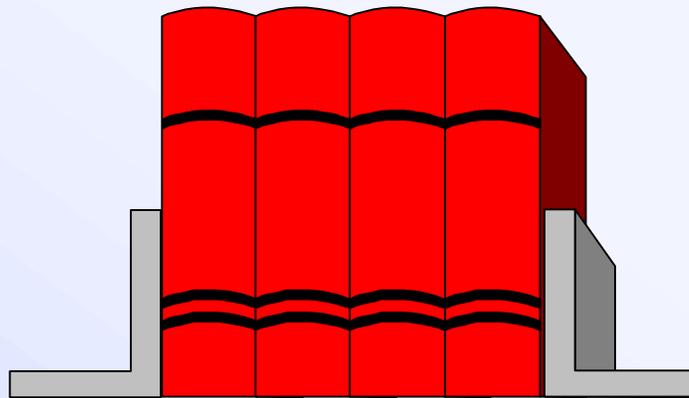
Peggy Powell

DSN 850 - 9464

ppowell@dcdc.dla.mil



Available Procedures



- Test and Evaluation Master Plan (TEMP)
- Software Test Plan (STP)
- Software Test Descriptions (STD)
- Software Test Report (STR)



TEMP Procedure



HEADQUARTERS LEVEL MASTER PLAN



Test & Evaluation Master Plan (TEMP)



Purpose: Documents Test Strategy for Life Cycle

From: Program Manager

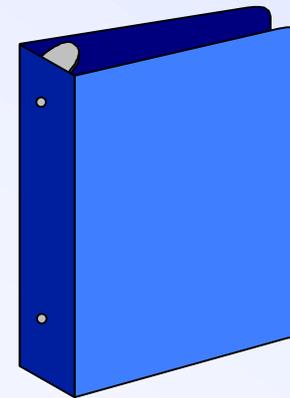
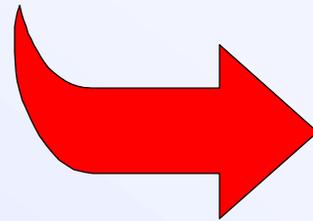
To: Headquarters and / or OSD

Req. Source: DOD 5000.2-R



TEMP Procedure

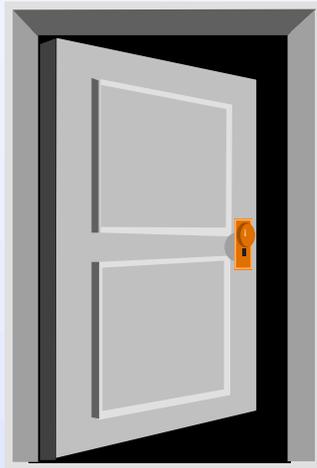
INPUT:



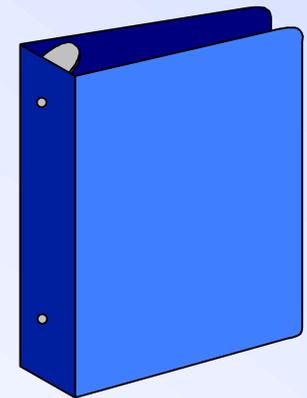
- Acquisition Program Baseline (APB)
 - Software Development Plan (draft)
 - Mission Needs Statement (MNS)
 - Risk Program Assessment Plan
 - Operational Requirement Document (ORD)



TEMP Procedure



ENTRY CRITERIA

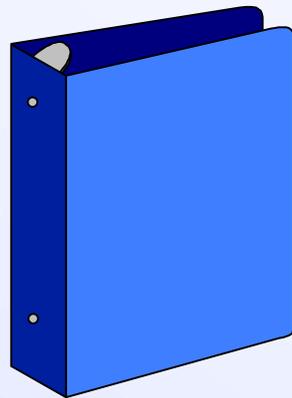


Major Automated Information System Review Council
(MAISRC) or

DLA Automated Information System Review Council
(DAISRC) Milestone 0 Approval



TEMP Procedure



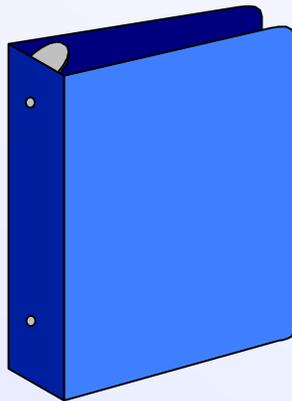
ACTIVITIES:

1. Plan and Budget
2. Format Mandatory from DOD 5000.2-R
3. Requirements Traceability
4. Overview System Development





TEMP Procedure



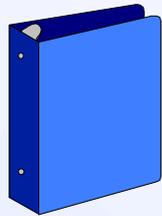
Activities cont'd:

5. Define Systems to be tested
6. Plan Risk reduction while optimizing use of test resources
7. Develop Test Master Schedule
8. Define Test Procedures





TEMP Procedure



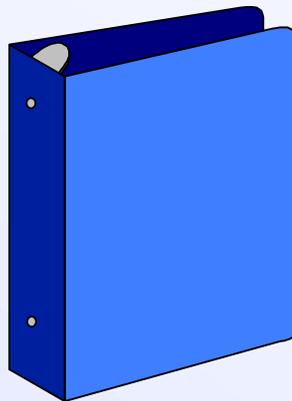
Activities cont'd:

9. Ensure testing supports certification of readiness
10. Plan for Modeling / Simulation
11. DISA/JITC Prepares Operational Test Plan
12. Submit TEMP for review





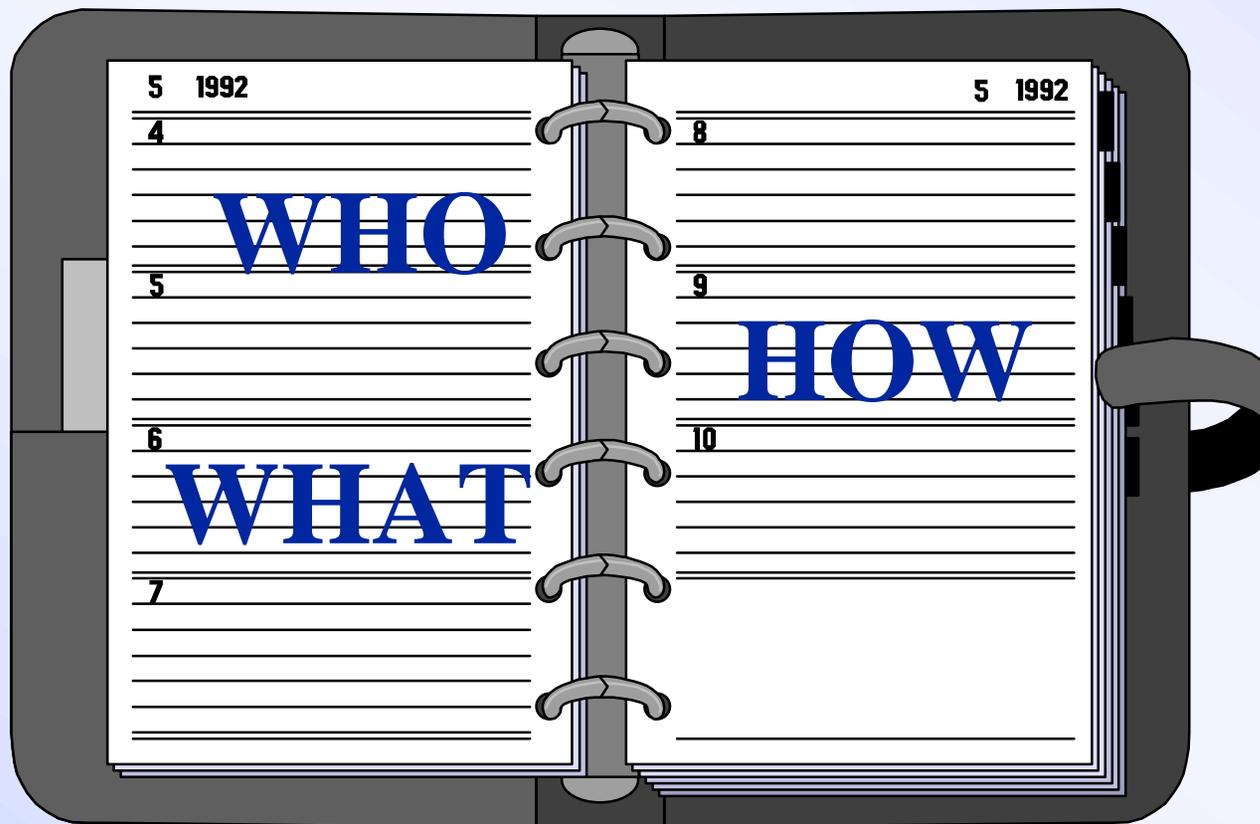
TEMP Procedure



- Signed by Program Manager
- (DAISRC) - Approved by DLA/CANI and DLA/CAN
- (MAISRC) - Approved by OSD/DTSE&E
- Approved by Milestone Decision Authority

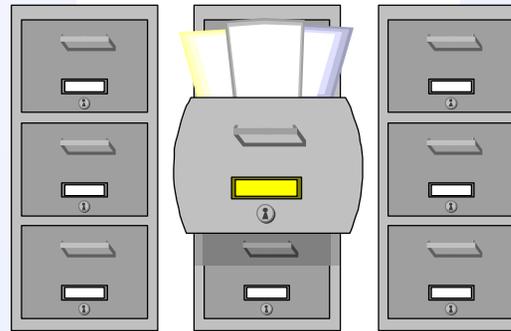


Software Test Plan Procedure





Software Test Plan (STP)



Purpose: Document High Level Test Plans

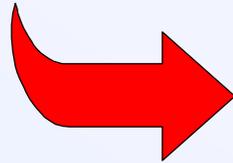
From: Test Team and Project Manager

To: Customer

Req. Source: MIL-STD 498

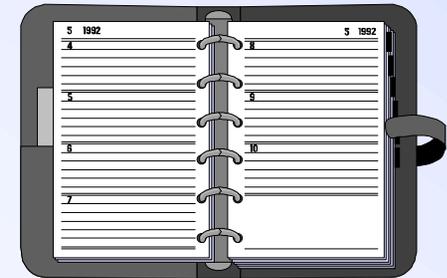


Software Test Plan Procedure



INPUT:

- SubSystem Specification (SSS)
- Software Development Plan
- Logical data model/Process model (User's view)
- Risk Assessment Plan
- Operational Requirement Documentation
- TEMP
- other baseline requirement Documents

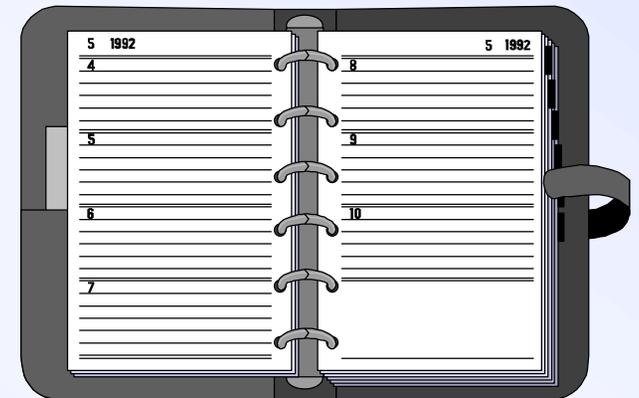




Software Test Plan Procedure



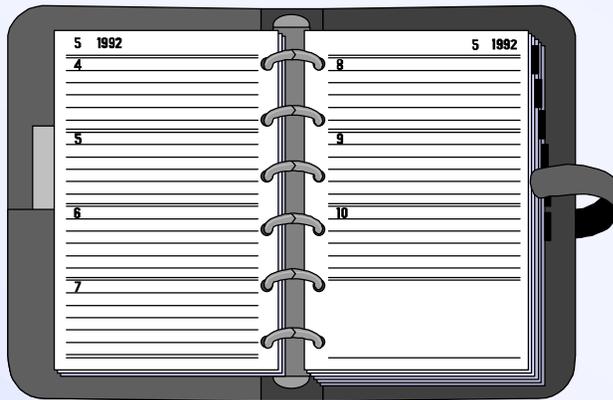
ENTRY CRITERIA:



Projects with Test and Evaluation
Requirements



Software Test Plan Procedure



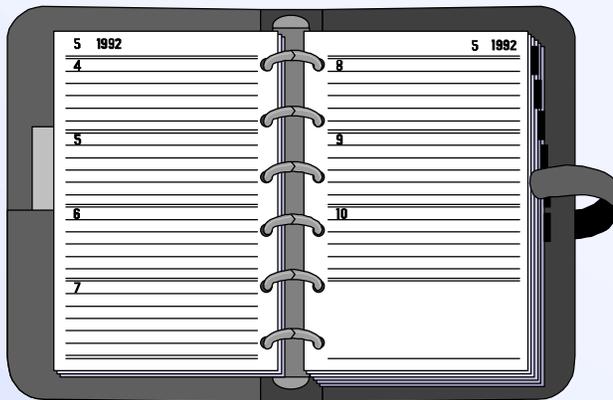
Activities:

1. Plan and Budget
2. Determine Scope and Objectives
3. Identify Test Resources





Software Test Plan Procedure



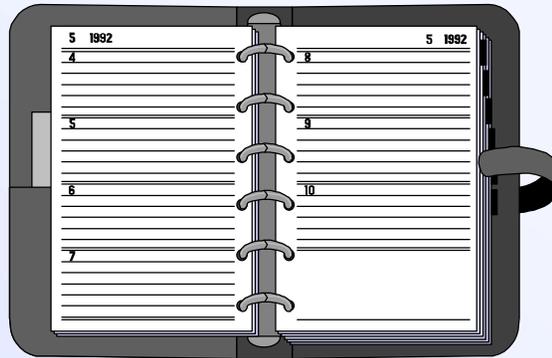
Activities cont'd:

4. Determine :
- Test Levels
 - Test Classes
 - Test Procedures
 - and - Planned Tests





Software Test Plan Procedure



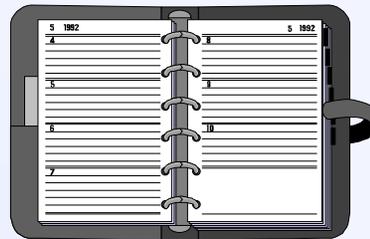
Activities cont'd:

5. Develop Test Schedule
6. Ensure Requirements Traceability
7. Determine need for Peer Review
8. Deliver Software Test Plan (STP)





Software Test Plan Procedure

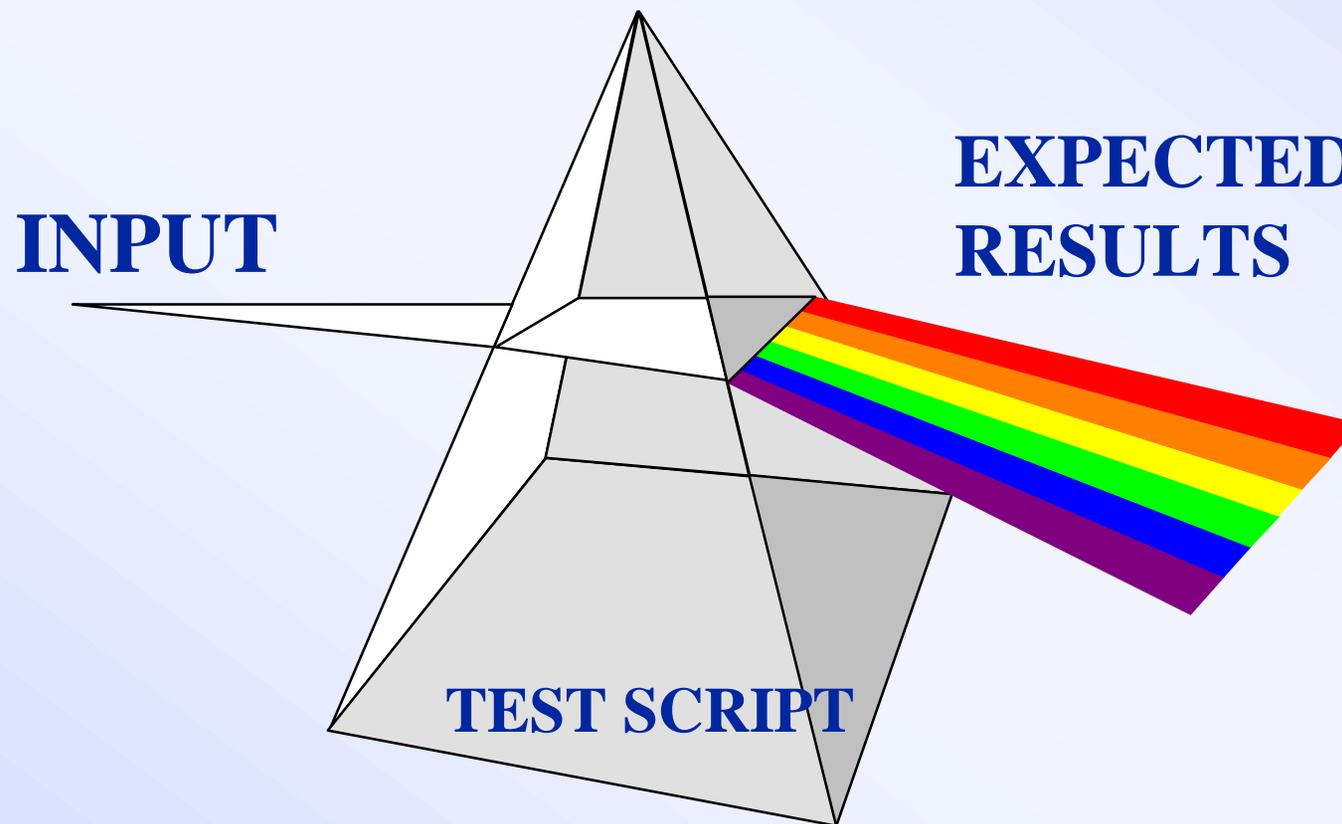


EXIT CRITERIA:

- Meet Configuration Mgt Procedures
- Customer Approval



Software Test Description Procedure





Software Test Description (STD)



Purpose: Document Input, Test Scripts, and expected results

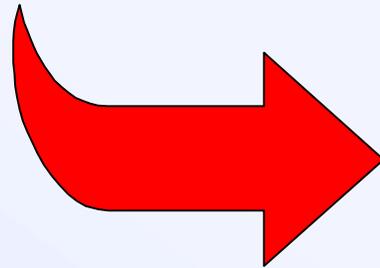
From: Test Team (includes Customer)

To: Actual Testers

Req. Source: MIL-STD 498

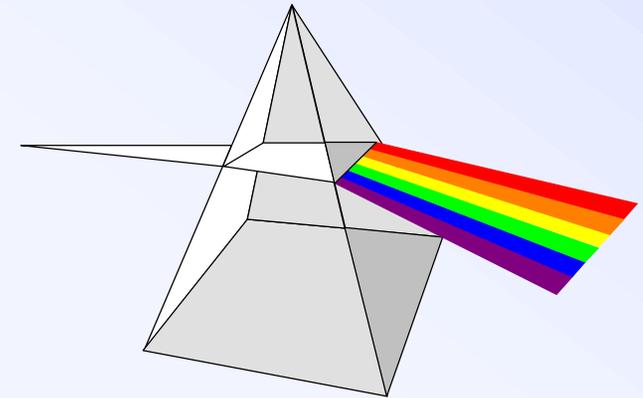


Software Test Description Procedure



INPUT:

- Sub System Specification (SSS)
- Software Development Plan
- Software Test Plan
- Logical Data Model/Process Model (User's View)
- Risk Assessment Plan
- Operational Requirement Documentation
- other baseline requirement Documents

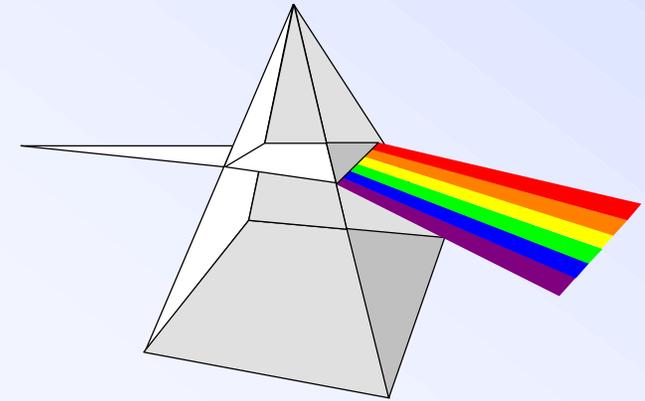




Software Test Description Procedure



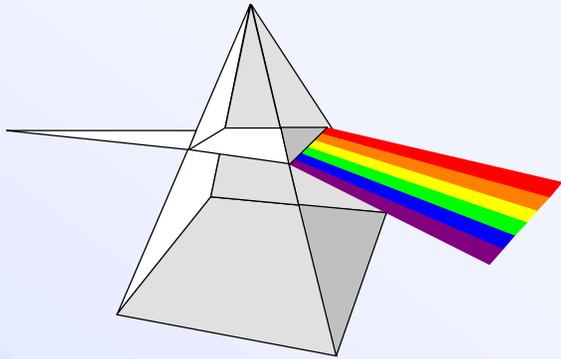
ENTRY CRITERIA:



Projects with Software Test Description Requirements



Software Test Description Procedure



Activities:

1. Obtain available input documents
2. Determine Scope
3. Define Pre-Test Preparation required for Testing

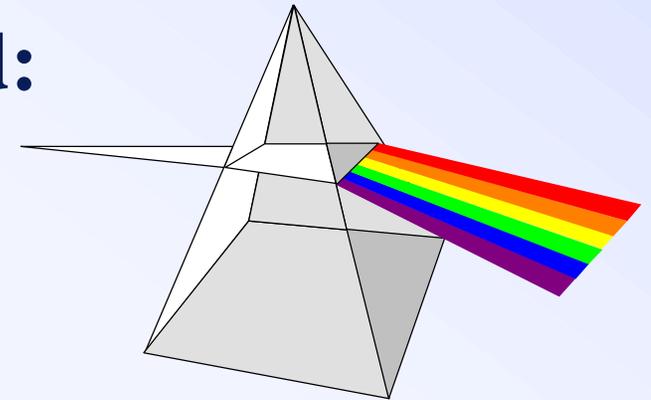




Software Test Description Procedure



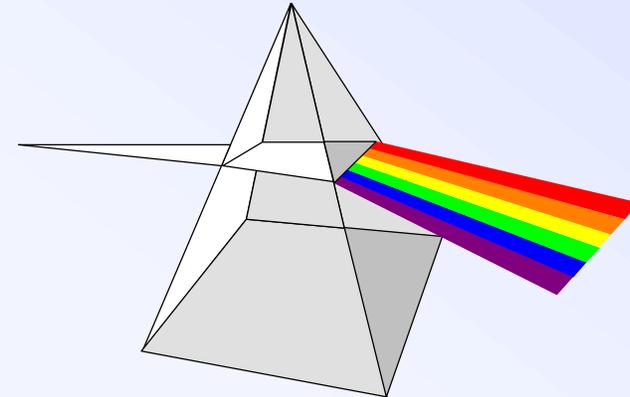
Activities cont'd:



4. Develop and Record “Detailed” Test Procedures
 - Test inputs, Expected results, Test dependencies
 - Assumptions and Constraints
5. Update Requirements Traceability Matrix



Software Test Description Procedure



EXIT CRITERIA:

- Meet Configuration Mgt Procedures
- Customer Approval



Software Test Report Procedure





Software Test Report (STR)



Purpose: Document Test Results

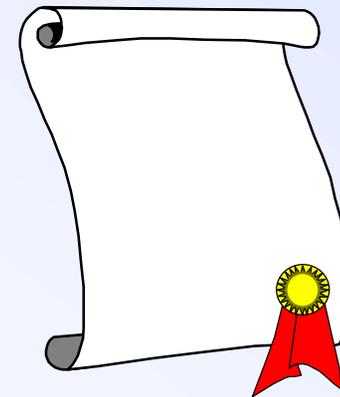
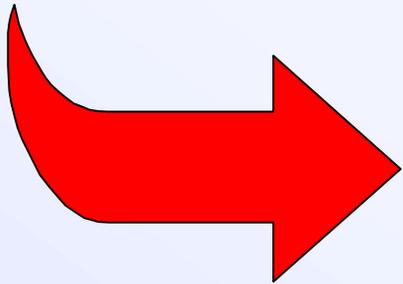
From: Test Team and Project Manager

To: Customer

Req. Source: MIL-STD 498



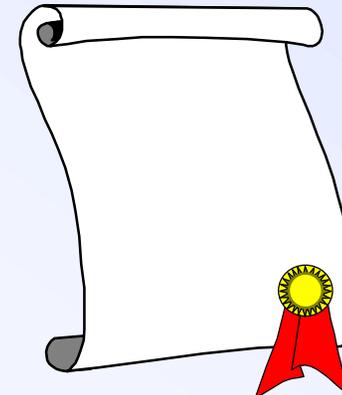
Software Test Report Procedure



- INPUT:**
- SSS/IRS - Software Test Plan
 - Software Test Description
 - TEMP
 - other baseline requirement Documents



Software Test Report Procedure



ENTRY CRITERIA:

Ready for Actual Test and
Documentation of Test Results



Software Test Report Procedure



Activities:

1. Review input documents
2. Review scope from STP and STD
3. Report Overall Assessment of Test Results





Software Test Report Procedure



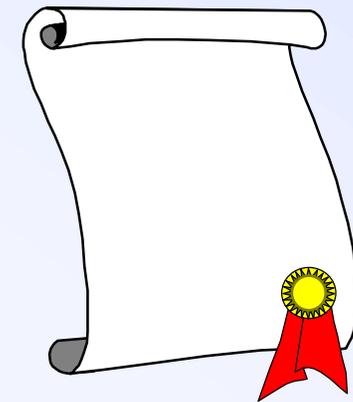
Activities cont'd:

4. Report Detailed Results and Problem Reports
5. Test Log Information
6. Determine need for Peer Review
7. Provide Report to Program Manager





Software Test Report Procedure



EXIT CRITERIA:

- Meet Configuration Mgt Procedures
- Deliver report to Customer



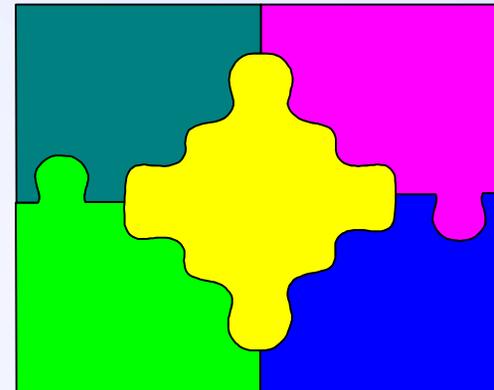
Available Procedures

- Based on DoD 5000.2-R
 - ◆ Test and Evaluation Master Plan (TEMP)
- Based on Mil-Std 498
 - ◆ Software Test Plan (STP)
 - ◆ Software Test Descriptions (STD)
 - ◆ Software Test Report (STR)



Exercise Handout

In the Exercise handout identify where the listed statements would normally go:



- ◆ Test and Evaluation Master Plan (TEMP)
- ◆ Software Test Plan (STP)
- ◆ Software Test Descriptions (STD)
- ◆ Software Test Report (STR)