

EVMS Test Metric Specification

1. **GUIDELINE NO:**
10

2. **TEST METRIC ID:**
10A104a

3. **TEST TYPE:**
Automated

4. **ATTRIBUTE/INTENT DEFINITION:**
10A1: Work packages have the following characteristics:

- Represent the scope of work at the level where work is performed or aggregated.
- Are distinguishable from all other work packages.
- Are assigned to a single organizational element.
- Include scheduled start and completion dates; and as applicable, interim milestones, all of which are representative of technical accomplishment.
- Have a time-phased budget or value expressed in terms of dollars, labor hours, or other measurable units that is substantiated in terms of supporting project plans.
- Have durations that are limited to a span of time that is practical for the work scope. Longer-duration work packages have interim objective measures, such as points of technical achievement, to enable accurate performance assessment.
- Are identified within the Integrated Master Schedule (IMS) and other supporting schedules.

5. **TEST DEFINITION:**
Are %Start-%Finish EVTs applied to incomplete WPs with two accounting periods of budget?

6. **TEST METRIC:**
X = Count of incomplete WPs with %Start-%Finish EVTs with more than two consecutive accounting periods of budget
Y = Total count of incomplete WPs with %Start-%Finish EVTs

7. **METRIC THRESHOLD:**
 $X/Y \leq 5\%$

8. **DATA ELEMENTS REQUIRED:**
02 Accounting/Fiscal Calendar
 02A Accounting Month Dates
13 EV Cost Tool Data
 13H BAC
 13Q BCWPCUM
 13U BCWS (time-phasing)
 13AP EVT
44 Cost Data Dictionary

9. **ASSUMPTIONS:**

1. %Start-%Finish EVTs are inclusive of 50-50 EVTs.
2. %Start-%Finish EVTs are exclusive of 0-100 EVTs.

3. If BAC and $BCWP_{CUM}$ are within \$100 (or 1 hour), then WP is complete.
 4. Use rounding to the nearest whole number for verifying time phased BCWS.
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10. INSTRUCTIONS:

1. Identify and count all incomplete WPs in the EV Cost Tool data with a %Start-%Finish EVT; this is the denominator (Y) of the test metric.
2. Using the set of WPs identified in Step 1, identify and count the WPs with more than two consecutive accounting periods of budget; this is the numerator (X) of the test metric.
3. Calculate the test metric (Block 7): X divided by Y.
4. Use block 7 as an indicator in the overall Risk Assessment to determine if further evaluation is warranted.

11. CONFIGURATION SUMMARY:

<i>Rev Number</i>	<i>Detailed Description of Change</i>	<i>Sections Affected</i>	<i>Spec Sheet Date</i>
v1.0	Initial Budget CCB	All	1/19/2016
v1.1	Edited and returned for retest		6/22/2016
v2.1	Updated after retest		11/17/2016
v3.0	Minor changes – updated to 3.0		3/23/2017
v3.1	Removed Block 4 (Frequency)		12/19/2018
v3.3	No changes – updated to v3.3		5/24/2019
v3.4	Update: Attribute and Assumptions		8/31/2019
v3.5	Update: Attribute, Test Step, Step Metric, Data Elements Required, Assumptions, and Instructions		2/22/2020
v3.6	Update: Test Metric, Data Elements Required, Assumptions, and Instructions		8/30/2020
v4.0	Changed Metric Template to delete old blocks 4, 9, 13, & 14 & updated block numbering & wording. Removed Pass/Fail verbiage to allow assessment of test results case by case. Updated blk 8 for consistency & added data element 44 to supplement artifact 13.	8 &10	3/05/2021
v5.0	No changes – updated to v5.0		12/13/2021
v6.0	Update layout for Section 508 Accessibility Compliance		12/02/2022
v7.0	Update Assumptions Update layout for Section 508 Accessibility Compliance		12/06/2024
v8.0	No changes - updated to v8.0		8/21/2025