

EVMS Test Metric Specification

1. **GUIDELINE NO:**
06

2. **TEST METRIC ID:**
06A401a

3. **TEST TYPE:**
Manual

4. **ATTRIBUTE/INTENT DEFINITION:**
06A4: Program milestones, contractual events, program decision points and external dependencies are logically linked within the network schedule/IMS to support critical path analysis.

5. **TEST DEFINITION:**
Does the schedule tool produce a critical path that represents the longest total duration with the least amount of total float?

6. **TEST METRIC:**
X = Count of tasks/activities & milestones on the constraint method critical path that are not on the contractor's critical path

7. **METRIC THRESHOLD:**
X = 0

8. **DATA ELEMENTS REQUIRED:**
 - 11 Integrated Master Schedule
 - 11A Actual Finish Date
 - 11G Baseline Finish Date
 - 11P Constraint Method Critical Path Activities
 - 11Q Constraint Type
 - 11R Contractual milestones
 - 11X Total Float/Slack
 - 11AM Task/Milestone UIDs
 - 12 Program Critical Path
 - 12A Program Critical Path Activities
 - 45 IMS Data Dictionary

9. **ASSUMPTIONS:**
 1. The constraint method applies a hard constraint to a selected end point with a date earlier than the baseline date of that end point, which generates negative total float and enables the identification of the critical path.

10. **INSTRUCTIONS:**
 1. Request a copy of the contractor's critical path.
 2. Using the constraint method, find the critical path through the program completion milestone (i.e. "Contract End"). If no program completion milestone exists, select the final discrete task/activity in the schedule as an alternative and consult with the contractor's scheduler to determine appropriateness.

3. Compare the tasks/activities & milestones on the constraint method critical path to the tasks/activities & milestones on the contractor's critical path. Count the total number of tasks/activities & milestones where the critical path calculations do not align (i.e., tasks/activities & milestones that are on the constraint method critical path but not on the contractor's critical path, or vice versa); this is the value (X) of the test metric.
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 CCB		12/02/2015
v2.0	CCB - validated		8/16/2016
v2.1	Integration – updated data elements		9/13/2016
v3.0	No changes – updated to 3.0		3/23/2017
v3.1	Revised Process, Removed Block 4 (Frequency)		11/27/2018
v3.3	No changes – updated to v3.3		5/24/2019
v3.4	Update Attribute		8/31/2019
v3.5	No changes – updated to v3.5		2/22/2020
v3.6	No changes – updated to v3.6		8/30/2020
v3.6.1	Added “milestones” to block 12. Updated block 10 due to oversight. Admin update to include “task” in block 11		11/02/2020
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. Added data element 45 to supplement artifact 11 & updated DEs in blk 8.	8 & 10	03/05/2021
v5.0	Deleted assumption 1 and updated instruction steps 2 and 3 to clarify instruction. Updated blk 10 to include activities and milestones.	9 & 10	12/13/2021
v6.0	Update layout for Section 508 Accessibility Compliance		12/02/2022
v7.0	Update layout for Section 508 Accessibility Compliance		12/06/2024
v8.0	No changes - updated to v8.0		8/21/2025