**DoD TRIPWIRE METRICS**

**Cost Efficiency CPI** = \( \frac{BCWP}{ACWP} \)
- Favorable is > 1.0, Unfavorable is < 1.0

**Schedule Efficiency SPI** = \( \frac{BCWP}{BCWS} \)
- Favorable is > 1.0, Unfavorable is < 1.0

**VARIANCES**
- Favorable is Positive, Unfavorable is Negative

**Cost Variance CV** = \( BCWP - ACWP \)
- \( CV\% = \frac{CV}{BCWP} \times 100 \)

**Schedule Variance SV** = \( BCWP - BCWS \)
- \( SV\% = \frac{SV}{BCWS} \times 100 \)

**Variance at Completion VAC** = \( BAC - EAC \)

**OVERALL STATUS**
- % Schedule = \( \frac{BCWSCUM}{BAC} \) \times 100
- % Complete = \( \frac{BCWPCUM}{BAC} \) \times 100
- % Spent = \( \frac{ACWPCUM}{BAC} \) \times 100

**BASELINE EXECUTION INDEX (BEI)**
- \( BEI = \frac{\text{Tasks with Actual Finish Date}}{\left( \# \text{ of Baseline Tasks Scheduled to Finish Prior to Status Date} + \# \text{ Tasks Missing Baseline Start or Finish Date} \right)} \)

**CRITICAL PATH LENGTH INDEX (CPLI)**
- \( CPLI = \frac{\text{CP Length (Time Now To Contract End)} + \text{Total Float (To Contract End Baseline Finish)}}{\text{CP Length}} \)

**ESTIMATE AT COMPLETION (EAC)**
- \( EAC = \frac{\text{Actuals to Date} + \left( \frac{\text{Remaining Work}}{\text{Performance Factor}} \right)}{1} \)
- \( EAC_{\text{CPI}} = \frac{ACWP_{\text{CUM}} + \left( \frac{BAC - BCWP_{\text{CUM}}}{CPI_{\text{CUM}}} \right)}{BAC / CPI_{\text{CUM}}} \)
- \( EAC_{\text{Composite}} = \frac{ACWP_{\text{CUM}} + \left( BAC - BCWP_{\text{CUM}} \right) / \left( CPI_{\text{CUM}} \times SPI_{\text{CUM}} \right)}{1} \)

**TO COMPLETE PERFORMANCE INDEX (TCPI)**
- \( TCPI_{\text{EAC}} = \text{Work Remaining} / \text{Cost Remaining} = \frac{BAC - BCWP_{\text{CUM}}}{EAC - ACWP_{\text{CUM}}} \)
- \( TCPI_{\text{EAC}} = \frac{BAC - BCWP_{\text{CUM}}}{EAC - ACWP_{\text{CUM}}} \)

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**EARNED VALUE MANAGEMENT ‘GOLD CARD’**

**VARIANCES**
- Favorable is Positive, Unfavorable is Negative

**Cost Variance CV** = \( BCWP - ACWP \)
- \( CV\% = \frac{CV}{BCWP} \times 100 \)

**Schedule Variance SV** = \( BCWP - BCWS \)
- \( SV\% = \frac{SV}{BCWS} \times 100 \)

**Variance at Completion VAC** = \( BAC - EAC \)

**OVERALL STATUS**
- % Schedule = \( \frac{BCWSCUM}{BAC} \) \times 100
- % Complete = \( \frac{BCWPCUM}{BAC} \) \times 100
- % Spent = \( \frac{ACWPCUM}{BAC} \) \times 100

**BASELINE EXECUTION INDEX (BEI)**
- \( BEI = \frac{\text{Tasks with Actual Finish Date}}{\left( \# \text{ of Baseline Tasks Scheduled to Finish Prior to Status Date} + \# \text{ Tasks Missing Baseline Start or Finish Date} \right)} \)

**CRITICAL PATH LENGTH INDEX (CPLI)**
- \( CPLI = \frac{\text{CP Length (Time Now To Contract End)} + \text{Total Float (To Contract End Baseline Finish)}}{\text{CP Length}} \)

**ESTIMATE AT COMPLETION (EAC)**
- \( EAC = \frac{\text{Actuals to Date} + \left( \frac{\text{Remaining Work}}{\text{Performance Factor}} \right)}{1} \)
- \( EAC_{\text{CPI}} = \frac{ACWP_{\text{CUM}} + \left( \frac{BAC - BCWP_{\text{CUM}}}{CPI_{\text{CUM}}} \right)}{BAC / CPI_{\text{CUM}}} \)
- \( EAC_{\text{Composite}} = \frac{ACWP_{\text{CUM}} + \left[ BAC - BCWP_{\text{CUM}} / (CPI_{\text{CUM}} \times SPI_{\text{CUM}}) \right]}{1} \)

**TO COMPLETE PERFORMANCE INDEX (TCPI)**
- \( TCPI_{\text{EAC}} = \text{Work Remaining} / \text{Cost Remaining} = \frac{BAC - BCWP_{\text{CUM}}}{EAC - ACWP_{\text{CUM}}} \)
- \( TCPI_{\text{EAC}} = \frac{BAC - BCWP_{\text{CUM}}}{EAC - ACWP_{\text{CUM}}} \)

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**Hit / Miss** = Month’s Tasks Completed ON or AHEAD / Month’s Tasks Scheduled to Complete

**ESTIMATE AT COMPLETION (EAC)** = Actuals to Date + \( \left( \frac{\text{Remaining Work}}{\text{Performance Factor}} \right) \)

**EAC_{\text{CPI}} = \frac{ACWP_{\text{CUM}} + \left( \frac{BAC - BCWP_{\text{CUM}}}{CPI_{\text{CUM}}} \right)}{BAC / CPI_{\text{CUM}}} \)

**EAC_{\text{Composite}} = \frac{ACWP_{\text{CUM}} + \left[ BAC - BCWP_{\text{CUM}} / (CPI_{\text{CUM}} \times SPI_{\text{CUM}}) \right]}{1} \)

---

**§ TO COMPLETE PERFORMANCE INDEX (TCPI)**

**TCPI_{\text{EAC}} = \text{Work Remaining} / \text{Cost Remaining} = \frac{BAC - BCWP_{\text{CUM}}}{EAC - ACWP_{\text{CUM}}} \)

- To Determine a Contract Level TCPI or EAC; You May Replace BAC with TAB
- To Determine the TCPI BAC or LRE Replace EAC with BAC or LRE
#### ACRONYMS

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<td><strong>UB</strong></td>
<td>Undistributed Budget (UB)</td>
</tr>
</tbody>
</table>

- **ACWP:** Actual Cost of Work Performed
- **AUW:** Authorized Unpriced Work
- **BAC:** Budget At Completion
- **BCWP:** Budgeted Cost of Work Performed
- **BCWS:** Budgeted Cost of Work Scheduled
- **CA:** Control Account
- **EAC:** Estimate At Completion
- **LRE:** Latest Revised Estimate
- **MR:** Management Reserve
- **NCC:** Negotiated Contract Cost
- **OTB:** Over Target Baseline
- **PAC:** Price At Completion
- **PMB:** Performance Measurement Baseline
- **SLPP:** Summary Level Planning Package
- **TAB:** Total Allocated Budget
- **TCPI:** To Complete Performance Index
- **UB:** Undistributed Budget
- **WP:** Work Package

#### EVM POLICY

DoDI 5000.02, Encl 4. Table 5. EVMS in accordance with ANSI/EIA-748 is required for cost or incentive contracts. Additional Guidance in Defense Acquisition Guidebook & Earned Value Management Implementation Guide (EVMIG).

#### EVM CONTRACTING REQUIREMENTS

- **For DoD:** $20M DFARS Clauses
- **Contract Performance Report:** DI-MGMT-81466A

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**EVM Home Page** = https://acc.dau.mil/evm

**eMail Address:** EVM.dau@dau.mil

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