**Earned Value Management**

**Gold Card**

### Variables
- **Cost Variance**
  - CV = BCWP - ACWP
  - CV % = (CV / BCWP) * 100
- **Schedule Variance**
  - SV = BCWP - BCWS
  - SV % = (SV / BCWS) * 100
- **Variance at Completion**
  - VAC = BAC - EAC
  - VAC % = (VAC / BAC) * 100

### Efficiencies
- **Cost Efficiency**
  - CPI = BCWP / ACWP
  - Favorable is > 1.0, Unfavorable is < 1.0
- **Schedule Efficiency**
  - SPI = BCWP / BCWS
  - Favorable is > 1.0, Unfavorable is < 1.0

### Schedule Metrics (Selected)
- **BEI** = Total Tasks Completed / (Total Tasks with Baseline Finish On or Prior to Current Report Period + Tasks without baseline finish dates)
- **Hit Task %** = 100 * (Tasks in Denominator that Completed On or Before Baseline Finish / Tasks Baselined to Finish within Current Report Period)

### Estimation @ Completion
- EAC = ACWP{sub}_cum + [(BAC - BCWP{sub}_cum) / CPI{sub}_cum]
- EAC{sub}composite = ACWP{sub}_cum + [(BAC - BCWP{sub}_cum) / (CPI{sub}_cum * SPI{sub}_cum)]

### To Complete Performance Index (TCPi) § #
- TCPi Target = Work Remaining / Cost Remaining = (BAC - BCWP{sub}_cum) / (Target - ACWP{sub}_cum)

### ACRONYMS
- **ACWP** Actual Cost of Work Performed
- **ALW** Authorized Unpriced Work
- **BAC** Budget At Completion
- **BCB** Budgeted Cost for Work Performed
- **BAC** Budgeted Cost for Work Scheduled
- **CA** Control Account
- **CBB** Contract Budget Base
- **CPI** Cost Performance Index
- **CP** Cost Efficiency
- **EAC** Estimate At Completion
- **EAC{sub}composite** Estimate At Completion for Composite
- **EAC{sub}cum** Estimate At Completion for Cumulative
- **EAI** Earned Value Administration
- **EAC{sub}cum** Estimate At Completion for Cumulative
- **EVA** Earned Value Administration
- **ETC** Estimate to Complete
- **EVM** Earned Value Management
- **ER** Earned Value Rate
- **EVM CoP** Earned Value Management CoP
- **ETC** Estimate to Complete
- **TCPi** To Complete Performance Index
- **TCPI** To Complete Performance Index
- **UB** Undistributed Budget
- **WIP** Work Package

### EVM Policy:
- EVM in accordance with EIA-748 is required for cost or incentive contracts, subcontracts, intra-government work agreements, & other agreements valued > $20M (FY $).
- Refer to the IPM/AR Implementation Guide for IPM/AR Tailoring Guidance.

### DoD’s EVM Contracting Requirements:
- DFARS Clauses:
  - 252.234-7001 “Notice of EVM” for Solicitations
  - 252.234-7002 “EVM” for Solicitations & Contracts
  - 252.242-7005 “Contractor Business Systems” for Solicitations & Contracts

### Integrated Program Management Data and Analysis Report
- DI-MGMT-81861

**EVM CoP:** [https://www.dau.edu/cop/evm](https://www.dau.edu/cop/evm) | Contact: EVM.dau@dau.edu | Revised Jun 2020