

Earned Value Formulas		
Acronym	Term Definitions (Do not reproduce in PMP® Exam)	Formula
PV	Planned Value	
EV	Earned Value	
AC	Actual Cost	
BAC	Budget at Completion	
SV	Schedule Variance	$EV - PV$
CV	Cost Variance	$EV - AC$
SPI	Schedule Performance Index	$EV / PV$
CPI	Cost Performance Index	$EV / AC$
% Complete	Percent Complete	$(EV / BAC) \times 100$
EAC (Estimate at Completion)	1. If CPI is assumed to be same throughout the project	$BAC / CPI$
	2. Estimating Assumptions not valid	$AC + ETC$
	3. Current variances are typical and work remaining is to be performed at CPI =1	$AC + BAC - EV$
	4. Current variances are typical and work remaining is to be performed at a constant CPI	$AC + (BAC - EV) / CPI$
	5. If both CPI and SPI influences the work remaining	$AC + (BAC - EV) / (CPI \times SPI)$
ETC	Estimate to Complete	$EAC - AC$
VAC	Variance at Completion	$BAC - EAC$
TCPI	To-Complete Performance Index (Based on BAC)	$(BAC - EV) / (BAC - AC)$
	To-Complete Performance Index (Based on EAC)	$(BAC - EV) / (EAC - AC)$

Formulas for SV, CV, SPI, and CPI have EV as first term.

Positive SV, CV values are good. CPI, SPI ratios > 1 are good.

TCPI ratio < 1 is good.