“Brain Dump” for PMP Exam

Formulas

BAC: No Formula – It’s the budget

PV or BCWS: BAC \* Planned % Complete

EV or BCWP: BAC \* Actual % Complete

AC or ACWP: No Formula – It’s the cost

CV: EV – AC

CPI: EV / AC

CPIc: EVc / ACc

SV: EV – PV (expressed in dollars)

SPI: EV / PV

EAC: BAC / CPIc (if CPI is expected to remain the same)

AC + Bottom-Up ETC (if original estimate is flawed)

AC + BAC – EV (if variance was a singular occurrence)

AC + (BAC – EV)/(CPI\*SPI) (if substandard performance continues)

- This one is not likely to be used unless all of these variables are given)

ETC: EAC – AC

VAC: BAC – EAC

TCPIc: (BAC – EV) / (BAC – AC) OR (BAC – EV) / (EAC – AC)

Comm. Chnls: n(n-1)/2

3-Pnt (PERT): (P + 4R + O) / 6

3-Pnt (Tringlr): (P + R + O) / 3

PERT Stnd Dev: (P - O) / 6

Float: LS – ES or LF – EF

PTA: ((Ceiling Price – Target Price)/Buyer’s Share Ratio) + Target Cost

Benefit Cost Ratio(BCR):

Benefit : Cost… example - $1,500,000 : $1,000,000 = 1.5 to 1

Economic Value Add (EVA):

After Tax Profit – (Capital Expenditures \* Cost of Capital)

Return on Investment (ROI):

(Benefit – Cost) / Cost

Return on Investment Capital (ROIC):

Net Income (After tax) / Total Capital Investment