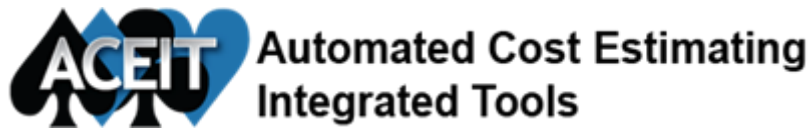


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Issue 108
February 2017



Tip of the Month

Calculating "unit price times yearly quantity" is simple, but what if the unit price changes mid-year?

This month's time-saving *Tip* shows how to write a formula that solves the common challenge of calculating a mid-year price change. Next month we will show you how to expedite the reuse of this complex formula by creating a User Defined Function (UDF).

Tip: Calculating a mid-year price change

Our estimating challenge is to calculate a row where the price changes after the first 1,000 units. Unfortunately, the 1000th unit falls mid-year. We want the costs in that year to reflect the appropriate prices before and after the change. Our buy quantity is stored in an IS phased row with Unique ID BuyQty. The unit costs are \$100 for units 1 through 1000 and \$120 for units greater than 1000. The following F-phased formula models this scenario:

```
IF(TCum(@BuyQty)≤1000, 100*BuyQty,
IF(IsBetween(1000, TCum(@BuyQty, TTP-1), TCum(@BuyQty)),
(1000-TCum(@BuyQty, TTP-1))*100 + (TCum(@BuyQty)-1000)*120,
120*BuyQty))
```

WBS/CES Description	Comments (*) Comments	Unique ID	Point Estimate	Phasing Method	Equation / Throughput
1 *Program Estimate Estimate		*Estimate	\$ 124,000,000 *	F	
2 Total Cost	Calculates cost with a mid-year price change given the following information: Price Break Unit, Yearly Quantities, Unit Cost Before and at the break, Unit Cost after the break.				IF(TCum(@BuyQty)≤PriceBreakUnit, UCS*BuyQty, IF(IsBetween(PriceBreakUnit, TCum(@BuyQty, TTP-1), TCum(@BuyQty)), (PriceBreakUnit-TCum(@BuyQty, TTP-1))*UCS + (TCum(@BuyQty)-PriceBreakUnit)*FutureUCS, FutureUCS*BuyQty))
3					
4 *INPUT VARIABLES		*IN VAR			
5 Price change at unit		PriceBreakUnit		C	1000
6 Yearly Quantities		BuyQty		IS	[Input Throughput]
7 Current Contract Unit Price		UCS	\$ 100,000 *	C	100
8 Future estimated Unit Price		FutureUCS	\$ 120,000 *	C	120

Results:

WBS/CES Description	Total	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
1 *Program Estimate Estimate						
2 Total Cost	\$ 124,000,000	\$ 10,000,000	\$ 20,000,000	\$ 30,000,000	\$ 52,000,000	\$ 12,000,000
3						
4 *INPUT VARIABLES						
5 Price change at unit	1000					
6 Yearly Quantities	1200	100	200	300	500	100
7 Current Contract Unit Price	\$ 100,000					
8 Future estimated Unit Price	\$ 120,000					

Price break occurs, cum units >= 1000

Tune in next month to see how you can make this formula generic and create your own User Defined Function. Then it can easily be used in future sessions or on multiple rows in the same session.



ACEIT Training

**** New Training Facility in Washington, DC ****
MicroTek, 1110 Vermont Ave., Washington, DC

All training courses have been updated and are being taught with the ACEIT 7.5 software!

Open Training Classes - Washington, DC

Apr 25-28 ACEIT 101: Introduction to ACE, CO\$TAT and POST [Enroll Now](#)

May 9-10 RI\$K 102: Introduction to Cost Risk Analysis and ACEIT RI\$K [Enroll Now](#)

May 11-12 Joint Analysis of Cost and Schedule (JACS) [Enroll Now](#)

May 9-12 Training Bundle - 4 Day (RI\$K 102/JACS) [Enroll Now](#)

On-Site Classes - let us come to you

ACEIT training courses can be taught at your location. To get more information about On-Site training or to get a quote, [complete the online request form](#).

Mechanics Training - one-on-one training

Need more hands-on training? ACEIT mechanics training can help. We can provide hands-on training to first time users of ACEIT as well as seasoned users. Let us help you get started using ACEIT or provide more advanced training in ACE, CO\$TAT, POST or JACS. E-mail [ACEIT Training](#) for more information.

Brown Bag Training

ACEIT Brown Bags offer remote training for a specific topic. The training typically runs 1 to 2 hours and is presented by a certified ACEIT trainer. Visit the [training section](#) on the ACEIT website for a list of popular Brown Bags that are available. Contact [ACEIT Training](#) for more information.



Support Alerts

ACE 7.4/7.5 - Error opening ACE after install: "The program can't start because mfc110.dll (or VCOMP110.dll) is missing from your computer" (26 Jan 2017)

Date: 1/26/2017

Application: ACE

Version: 7.4 and 7.5

Problem: The ACEIT installation finishes as expected but the error above appears when opening ACE. The ACEIT installation tries to determine whether or not the proper prerequisite files are present so it doesn't reinstall them. The problem above is that the VC redistrib file was not installed, but should have been.

For more details about this support alert and to view the solution, view the [Support Alerts](#) online.



Downloads

There are no new Downloads posted.

For other available downloads, visit the [Downloads section](#) online.



Version Compatibility Chart

ACEIT Version (release date)	Windows OS Version	Microsoft Office Version
7.5 (Aug 2016)	Vista, Windows 7,8 or 10 (32 or 64 bit)	2010,2013,2016 (32 or 64 bit)
7.4b (April 2015) 7.4 (May 2014)	XP, Vista, Windows 7 or 8	2007, 2010, 2013, 2016* (32 or 64 bit)**
7.3a (March 2012) 7.3 (April 2011)	XP, Vista Windows 7 (32 or 64-bit)	2003, 2007,2010 (32-bit only)

* 7.4b is compatible with Office 2016

** ACDB 7.4 compatible with Excel 2007 and 2010 (32 and 64-bit)

View your ACEIT version and release date by selecting File>About in the ACE application.



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