



## Work Performance Management

### Sample Project Outlines

#### Sample 1 - Replace 200 Telstra pits in a suburb



Using the installation of the pits as the *Unit of Measure*. The full scope of project work involves:

- Prerequisites:
  - Somewhere to dispose of the old pits (asbestos cement is a hazardous material)
  - New pits to install (procurement)
  - Trained people
  - Notice to home owners before work in their street
- Repetitive element
  - Remove old fibro cement pits (asbestos hazard)  
Note: the underground conduits (ducts) are not being replaced
  - Replace with new 'plastic pits'
  - Tidy up the area
- Finalize the project.

The repetitive work of replacing the pits can be done in almost any sequence.

The schedule needed for this project, given a contract period of 13 weeks (3 months) to replace the 200 pits:

- Allow 2 weeks for initial procurement and training
- Allow 1 week for initial on-the-job learning – install 11 pits only
- Allow 1 week at the end for project finalization
- Therefore 9 weeks are left to install 189 pits = 21 per week.



## Work Performance Management

Guidance on applying the methodology using the *Easy WPM Workbook*.

### Sample 2 – In-House Development Using Scrum

A 20-week software project that has 27 stories of various size, and a total of 86 story points.

The resource planning is to use 2 scrum teams.

The project plan has the following assumptions:

- The first 2 weeks are needed for team development, planning and other start-up processes
- Sprints are expected to take 2 weeks each, and
- the last two weeks will be for contingencies, bug fixes and other finalization work
- This leaves 16 weeks for productive work, therefore, the first stories should be delivered at the end of the first productive sprint, week 4, and all stories by the end of week 18.

This means the rate of planned production between the start of week 2, and the end of week 18 is  $86/16 = 5.375$  story points per week. Based on these assumptions, at the end of week 4 (2 weeks of production) we can expect 10+ story points to be complete, and at the end of week 18 all 86 story points complete. The rest of the planned distribution is simply a straight line between these two points.

### Sample 3 – Construct a Rail Bridge



A 10 Month project to construct a new rail bridge using \$ as the *Unit of Measure*. The planned and earned data is taken from the projects *Easy EVM* control tool<sup>1</sup>.

<sup>1</sup> For more information on the rail project and the *Easy EVM* tool see:  
<https://mosaicprojects.com.au/PMKI-SCH-040.php#Process1>



## Work Performance Management

Guidance on applying the methodology using the *Easy WPM* Workbook.

The Planned work:

<b>mosaic</b>		<b>Easy EVM Workbook</b>		
<b>Sample Rail Bridge EVM</b>				
WP #	WP Description	Baseline Values		
		Start	End	\$ Budget
<b>Project totals =</b>		<b>15-Nov-21</b>	<b>15-Sep-22</b>	<b>\$15,000,000.00</b>
1.1	Project management and overheads	15-Nov-21	15-Sep-22	\$850,000.00
1.2	Site management and services	02-Jan-22	15-Sep-22	\$600,000.00
2	Design & Approvals	15-Nov-21	31-Jan-22	\$1,550,000.00
3.1	Site set up	02-Jan-22	31-Jan-22	\$300,000.00
3.2	Earth works	20-Jan-22	20-Mar-22	\$1,500,000.00
3.3	Manfr. & Install PC Bridge Deck	02-Jan-22	25-Jul-22	\$3,900,000.00
3.4	Concrete piers & walls	01-Mar-22	30-May-22	\$2,900,000.00
3.5	Embankment works	30-May-22	10-Jul-22	\$1,200,000.00
3.6	Track works	26-Jul-22	30-Aug-22	\$1,700,000.00
3.7	Clear Site & Make Good	30-Aug-22	15-Sep-22	\$500,000.00

The Earned Value (measure of work performed) as at 21<sup>st</sup> Feb. 2022:

<b>mosaic</b>		<b>Easy EVM Workbook</b>			
<b>Sample Rail Bridge EVM</b>					<b>ETC:</b>
WP #	WP Description	Baseline Values			Earned Value
		Start	End	\$ Budget	
<b>Project totals =</b>		<b>15-Nov-21</b>	<b>15-Sep-22</b>	<b>\$15,000,000.00</b>	<b>\$4,158,000.00</b>
1.1	Project management and overheads	15-Nov-21	15-Sep-22	\$850,000.00	\$255,000.00
1.2	Site management and services	02-Jan-22	15-Sep-22	\$600,000.00	\$90,000.00
2	Design & Approvals	15-Nov-21	31-Jan-22	\$1,550,000.00	\$1,550,000.00
3.1	Site set up	02-Jan-22	31-Jan-22	\$300,000.00	\$300,000.00
3.2	Earth works	20-Jan-22	20-Mar-22	\$1,500,000.00	\$1,125,000.00
3.3	Manfr. & Install PC Bridge Deck	02-Jan-22	25-Jul-22	\$3,900,000.00	\$780,000.00
3.4	Concrete piers & walls	01-Mar-22	30-May-22	\$2,900,000.00	\$58,000.00
3.5	Embankment works	30-May-22	10-Jul-22	\$1,200,000.00	
3.6	Track works	26-Jul-22	30-Aug-22	\$1,700,000.00	
3.7	Clear Site & Make Good	30-Aug-22	15-Sep-22	\$500,000.00	