

FOLDER 8

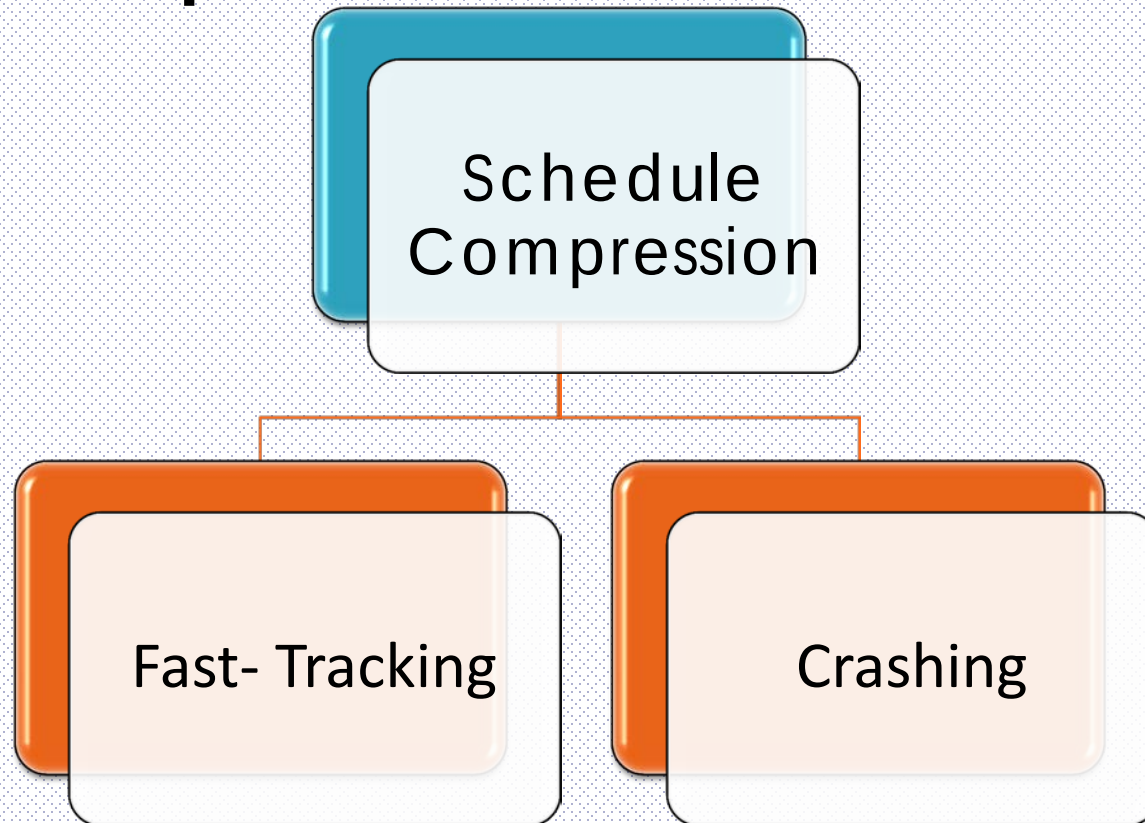
- **Schedule
Compression**



Pembangunan Jadwal - *Schedule Compression*

Schedule Compression

- **Merupakan kaedah memendekkan jadual kerja**



Schedule Compression

– Kaedah Bagi Penyelesaian Total Float (-ve)

- **Fast Tracking**

- Kaedah mengubahsuai berkaitan dengan kerja supaya kerja-kerja itu dapat dilakukan serentak pada masa tertentu sahaja.
- Biasanya digunakan bagi kerja-kerja yang belum bermula.
- Melibatkan 1M (method) - hubungan (*link type* dan *predecessor, lead & lag time*)

Schedule Compression

- **Crashing**

- Biasanya digunakan bagi kerja-kerja yang belum bermula atau sedang dalam pelaksanaan.
- Kaedah dimana masa dan kos yang digunakan adalah yang paling minima atau tanpa sebarang kos dengan :
 - pendekkan tempoh kerja
 - tingkatkan usaha sumber (4M)
 - **$D=Q/PR$**

Total Float (Tentukan Deadline)

	i	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Total Slack	30 Jan '11	3 A
1			1	Projek JKR - Membina 2 blok							F	S
2			1.1	Projek Mula								
3			1.2	Preliminaries								
4			1.2.1	Performance Bond & I								
5			1.2.2	Establish & Removal Si								
6			1.2.2.1	Establish Site Office								
7			1.2.2.2	Removal Site Office								
8			1.2.3	Maintenance of Site O								
9			1.2.4	Laporan Kemajuan								
15			1.3	Land Acquisition (Blok A &								
16			1.4	Services Relocation (Blok								
17			1.5	Blok A								
18			1.5.1	Kerja Tanah								
19			1.5.2	Kerja Structure								
20			1.5.3	Kerja Arkitek								
21			1.5.4	Kerja M&E								
22			1.6	Blok B								
23			1.6.1	ah								
24			1.6.2	structure								
25			1.6.3	itek	60 days	31 Jul '11	20 Oct '11	24	Arkitek team[2]	5 days		
26			1.6.4		55 days	31 Jul '11	13 Oct '11	24	M & E team[2]	-42 days		
27			1.7	Completion of Cable Laying By TNB	0 days	20 Oct '11	20 Oct '11	21FS+5 days,2		-42 days		
28			1.8	Testing & Commissioning	5 days	23 Oct '11	27 Oct '11	27		-42 days		
29			1.9	Projek Siap	0 days	27 Oct '11	27 Oct '11	3,17,22,28		-42 days		

Task Information

General | Predecessors | Resources | Advanced | Notes | Fields

Name: Duration: ☐ Estimated

Constrain task

Deadline:

Constraint type: Constraint date:

Task type: ☐ Effort driven

Calendar: ☐ Scheduling ignores resource calendars

WBS code:

Earned value method:

☒ Mark task as milestone

Fast-Tracking (i)

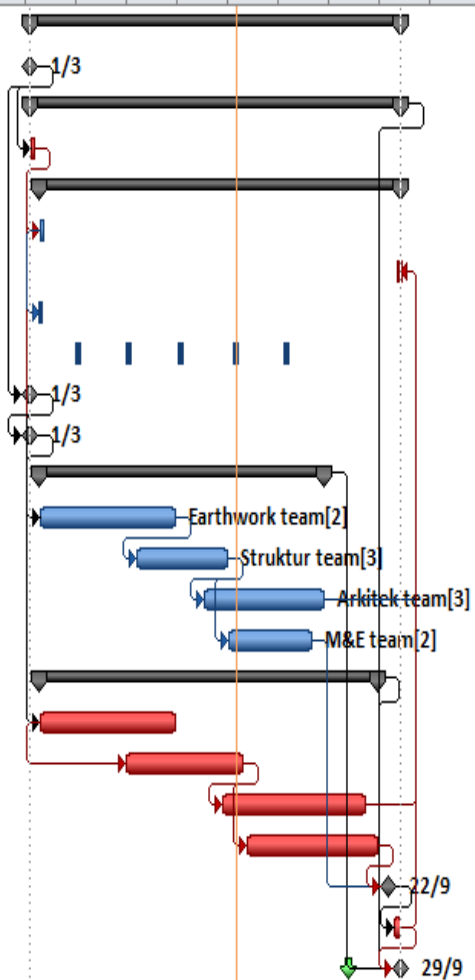
17			1.5	Blok A	142 days	6 Mar '11	20 Sep '11			-18 days
18			1.5.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,15	Earthwork team[2]	-10 days
19			1.5.2	Kerja Structure	37 days	23 May '11	12 Jun '11	18	Struktur team[3]	-10 days
20			1.5.3	Kerja Arkitek	50 days	13 Jul '11	20 Sep '11	19	Arkitek team[3]	27 days
21			1.5.4	Kerja M&E	35 days	13 Jul '11	30 Aug '11	19	M&E team[2]	-10 days
22			1.6	Blok B	164 days	6 Mar '11	21 Oct '11			-42 days
23			1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	-42 days



17			1.5	Blok A	127 days	6 Mar '11	30 Aug '11			5 days
18			1.5.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,15	Earthwork team[2]	5 days
19			1.5.2	Kerja Structure	37 days	1 May '11	21 Jun '11	18FS-15 days	Struktur team[3]	5 days
20			1.5.3	Kerja Arkitek	50 days	22 Jun '11	30 Aug '11	19	Arkitek team[3]	42 days
21			1.5.4	Kerja M&E	35 days	22 Jun '11	9 Aug '11	19	M&E team[2]	5 days
22			1.6	Blok B	164 days	6 Mar '11	20 Oct '11			-42 days
23			1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	-42 days

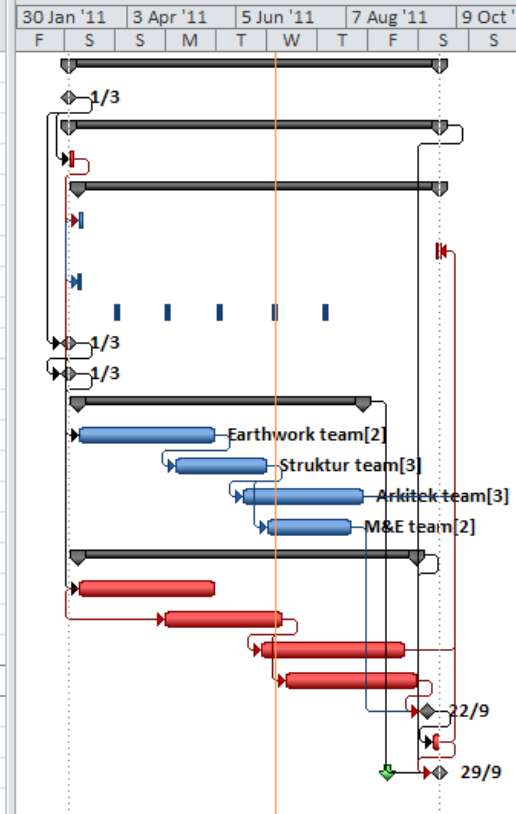
Fast-Tracking (ii)

	i	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Total Slack	30 Jan '11	3 Apr '11	5 Jun '11	7 Aug '11	9 Oct '11					
											F	S	S	M	T	W	T	F	S	S
1			1	Projek JKR - Membina 2 blok bangunan	152 days	1 Mar '11	29 Sep '11			-22 days										
2			1.1	Projek Mula	0 days	1 Mar '11	1 Mar '11			-22 days										
3			1.2	Preliminaries	152 days	1 Mar '11	29 Sep '11			-22 days										
4			1.2.1	Performance Bond & Insurance	3 days	1 Mar '11	3 Mar '11	2		-22 days										
5			1.2.2	Establish & Removal Site Office	149 days	6 Mar '11	29 Sep '11			-22 days										
6			1.2.2.1	Establish Site Office	3 days	6 Mar '11	8 Mar '11	4		124 days										
7			1.2.2.2	Removal Site Office	2 days	28 Sep '11	29 Sep '11	20FF,25FF,28F		-22 days										
8			1.2.3	Maintenance of Site Office	1 day	6 Mar '11	6 Mar '11	6SS		126 days										
9			1.2.4	Laporan Kemajuan	87 days	27 Mar '11	26 Jul '11			25 days										
15			1.3	Land Acquisition (Blok A & B)	0 days	1 Mar '11	1 Mar '11	2		-19 days										
16			1.4	Services Relocation (Blok B only)	0 days	1 Mar '11	1 Mar '11	15		-19 days										
17			1.5	Blok A	117 days	6 Mar '11	16 Aug '11			5 days										
18			1.5.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,15	Earthwork team[2]	5 days										
19			1.5.2	Kerja Structure	37 days	1 May '11	21 Jun '11	18FS-15 days	Struktur team[3]	5 days										
20			1.5.3	Kerja Arkitek	50 days	8 Jun '11	16 Aug '11	19FS-10 days	Arkitek team[3]	10 days										
21			1.5.4	Kerja M&E	35 days	22 Jun '11	9 Aug '11	19	M&E team[2]	5 days										
22			1.6	Blok B	139 days	6 Mar '11	15 Sep '11			-22 days										
23			1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	-22 days										
24			1.6.2	Kerja Structure	49 days	24 Apr '11	30 Jun '11	23SS+35 days	Struktur team[3]	-22 days										
25			1.6.3	Kerja Arkitek	60 days	19 Jun '11	8 Sep '11	24FS-10 days	Arkitek team[2]	-7 days										
26			1.6.4	Kerja M & E	55 days	3 Jul '11	15 Sep '11	24	M & E team[2]	-22 days										
27			1.7	Completion of Cable Laying By TNB	0 days	22 Sep '11	22 Sep '11	21FS+5 days,2		-22 days										
28			1.8	Testing & Commissioning	5 days	25 Sep '11	29 Sep '11	27		-22 days										
29			1.9	Projek Siap	0 days	29 Sep '11	29 Sep '11	3,17,22,28		-22 days										



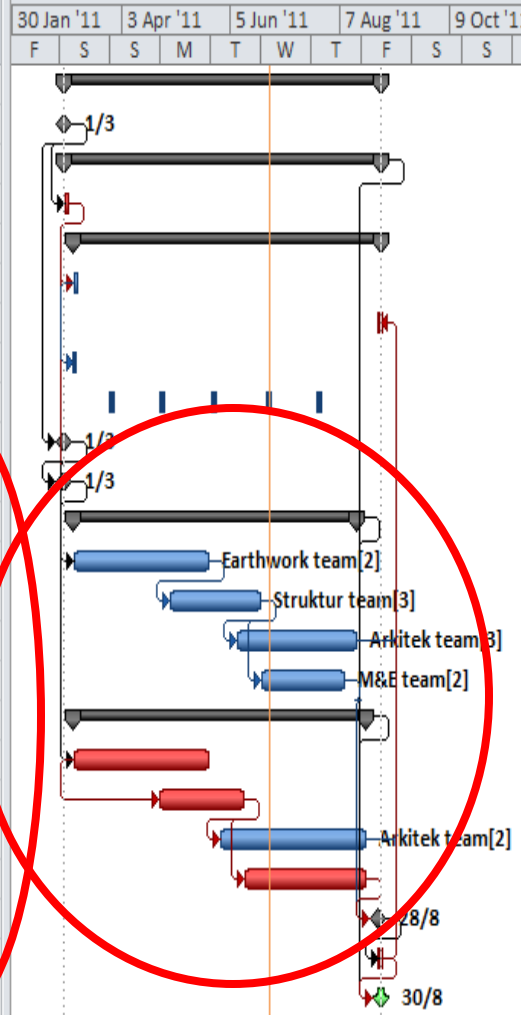
Crashing (i)

	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Total Slack	30 Jan '11	3 Apr '11	5 Jun '11	7 Aug '11	9 Oct '11
1		1	Projek JKR - Membina 2 blok bangunan	152 days	1 Mar '11	29 Sep '11			-22 days	F	S	S	M	T
2		1.1	Projek Mula	0 days	1 Mar '11	1 Mar '11			-22 days					
3		1.2	Preliminaries	152 days	1 Mar '11	29 Sep '11			-22 days					
4		1.2.1	Performance Bond & Insurance	3 days	1 Mar '11	3 Mar '11	2		-22 days					
5		1.2.2	Establish & Removal Site Office	149 days	6 Mar '11	29 Sep '11			-22 days					
6		1.2.2.1	Establish Site Office	3 days	6 Mar '11	8 Mar '11	4		124 days					
7		1.2.2.2	Removal Site Office	2 days	28 Sep '11	29 Sep '11	20FF,25FF,28F		-22 days					
8		1.2.3	Maintenance of Site Office	1 day	6 Mar '11	6 Mar '11	6SS		126 days					
9		1.2.4	Laporan Kemajuan	87 days	27 Mar '11	26 Jul '11			25 days					
15		1.3	Land Acquisition (Blok A & B)	0 days	1 Mar '11	1 Mar '11	2		-19 days					
16		1.4	Services Relocation (Blok B only)	0 days	1 Mar '11	1 Mar '11	15		-19 days					
17		1.5	Blok A	117 days	6 Mar '11	16 Aug '11			5 days					
18		1.5.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,15	Earthwork team[2]	5 days					
19		1.5.2	Kerja Structure	37 days	1 May '11	21 Jun '11	18FS-15 days	Struktur team[3]	5 days					
20		1.5.3	Kerja Arkitek	50 days	8 Jun '11	16 Aug '11	19FS-10 days	Arkitek team[3]	10 days					
21		1.5.4	Kerja M & E	35 days	22 Jun '11	9 Sep '11		M & E team[2]	5 days					
22		1.6	Blok B	139 days	6 Mar '11	22 Sep '11			-22 days					
23		1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	-22 days					
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25		1.6.3	Kerja Arkitek	60 days	19 Jun '11	8 Sep '11	24FS-10 days	Arkitek team[2]	-7 days					
26		1.6.4	Kerja M & E	55 days	3 Jul '11	15 Sep '11	24	M & E team[2]	-22 days					
27		1.7	Completion of Cable Laying By T & B	0 days	22 Sep '11	22 Sep '11	21FS+5 days,2		-22 days					
28		1.8	Testing & Commissioning	5 days	25 Sep '11	29 Sep '11	27		-22 days					
29		1.9	Projek Siap	0 days	29 Sep '11	29 Sep '11	3,17,22,28		-22 days					



Schedule Compression

	i	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Total Slack	30 Jan '11	3 Apr '11	5 Jun '11	7 Aug '11	9 Oct '11
1			1	Projek JKR - Membina 2 blok bangunan	130 days	1 Mar '11	30 Aug '11			0 days	F	S	S	M	T
2			1.1	Projek Mula	0 days	1 Mar '11	1 Mar '11			0 days					
3			1.2	Preliminaries	130 days	1 Mar '11	30 Aug '11			0 days					
4			1.2.1	Performance Bond & Insurance	3 days	1 Mar '11	3 Mar '11	2		0 days					
5			1.2.2	Establish & Removal Site Office	127 days	6 Mar '11	30 Aug '11			0 days					
6			1.2.2.1	Establish Site Office	3 days	6 Mar '11	8 Mar '11	4		124 days					
7			1.2.2.2	Removal Site Office	2 days	29 Aug '11	30 Aug '11	20FF,25FF,28F		0 days					
8			1.2.3	Maintenance of Site Office	1 day	6 Mar '11	6 Mar '11	6SS		126 days					
9			1.2.4	Laporan Kemajuan	87 days	27 Mar '11	26 Jul '11			25 days					
15			1.3	Land Acquisition (Blok A & B)	0 days	1 Mar '11	1 Mar '11	2		3 days					
16			1.4	Services Relocation (Blok B only)	0 days	1 Mar '11	1 Mar '11	15		3 days					
17			1.5	Blok A	117 days	6 Mar '11	16 Aug '11			8 days					
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21			1.5.4	Kerja M&E	35 days	22 Jun '11	9 Aug '11	19	M&E team[2]	8 days					
22			1.6	Blok B	120 days	6 Mar '11	21 Aug '11			0 days					
23			1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	0 days					
24			1.6.2	Kerja Structure	35 days	4 Apr '11	12 Jun '11	23SS+35 days	Struktur team[3]	0 days					
25			1.6.3	Kerja Arkitek	60 days	30 May '11	21 Aug '11	24FS-10 days	Arkitek team[2]	7 days					
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27			1.7	Completion of Cable Laying By TNB	0 days	28 Aug '11	28 Aug '11	21FS+5 days		0 days					
28			1.8	Testing & Commissioning	2 days	29 Aug '11	30 Aug '11	27		0 days					
29			1.9	Projek Siap	0 days	30 Aug '11	30 Aug '11	3,17,22,28		0 days					



Jadual Kerja

	i	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Total Slack
1			1	Projek JKR - Membina 2 blok bangunan	130 days	1 Mar '11	30 Aug '11			0 days
2			1.1	Projek Mula	0 days	1 Mar '11	1 Mar '11			0 days
3			1.2	Preliminaries	130 days	1 Mar '11	30 Aug '11			0 days
4			1.2.1	Performance Bond & Insurance	3 days	1 Mar '11	3 Mar '11	2		0 days
5			1.2.2	Establish & Removal Site Office	127 days	6 Mar '11	30 Aug '11			0 days
6			1.2.2.1	Establish Site Office	3 days	6 Mar '11	8 Mar '11	4		1 day
7			1.2.2.2	Removal Site Office	2 days	29 Aug '11	30 Aug '11	20FF,25FF,28F		0 days
8			1.2.3	Maintenance of Site Office	126 days	6 Mar '11	29 Aug '11	6SS		1 day
9			1.2.4	Laporan Kemajuan	87 days	27 Mar '11	26 Jul '11			25 days
15			1.3	Land Acquisition (Blok A & B)	0 days	1 Mar '11	1 Mar '11	2		3 days
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22			1.6	Blok B	120 days	6 Mar '11	21 Aug '11			0 days
23			1.6.1	Kerja Tanah	55 days	6 Mar '11	22 May '11	4,16	Earthwork team[3]	0 days
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27			1.7	Completion of Cable Laying By TNB	0 days	28 Aug '11	28 Aug '11	21FS+5 days,2		0 days
28			1.8	Testing & Commissioning	2 days	29 Aug '11	30 Aug '11	27		0 days
29			1.9	Projek Siap	0 days	30 Aug '11	30 Aug '11	3,17,22,28		0 days

