

IQRA NATIONAL UNIVERSITY

Name: Abid Ullah Khan

ID : 7737

Section : A

Quiz : Structure Management

Submitted to : Engr. Zeeshan Ahad

a) Activity List of a two story building

- Survey
- Mobilization
- Grubbing of Site
- Layout and Excavation
- Foundation and Columns
- Brick Masonry Wall
- Formwork
- Concreting (Beam and Slab)
- Curing
- Flooring
- Wood Work
- Plumbing and Sanitary work
- Electrification
- Finishing
- Miscellaneous

Part B

Primavera P6 Professional R16.1: 7737, A1001 (2 Storey House, Startup)

File Edit View Project Enterprise Tools Admin Help

Activities

Projects Activities

Layout: Classic Schedule Layout Filter: All Activities

Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
7737	2 Storey House	0	0	0%	
A1001	Startup	3	3	0%	16-Apr-20
A1010	Startup	0	0	0%	16-Apr-20
A1020	Site Clearance	2	2	0%	16-Apr-20
A1030	Set Out	2	2	0%	17-Apr-20

Qtr 2, 2020: Mar, Apr, May, Jun
Qtr 3, 2020: Jul, Aug, Sep
Qtr 4, 2020: Oct, Nov, Dec

20-Apr-20, A1001 Startup
Startup
Site Clearance
Set Out

General Status Resources Predecessors Successors Feedback

Activity: A1030 Set Out Project: A1001

Activity Type: Task Dependent Duration Type: Fixed Duration & Units % Complete Type: Duration Activity Calendar: Corporate - Standard Full Time

WBS: A1001 Startup Responsible Manager: Enterprise Primary Resource: Enterprise

Portfolio: All Projects Access Mode: Shared Data Date: 14-Apr-20 Baseline: Current Project User: admin DB: PMDB (Professional)

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Primavera P6 Professional R16.1: 7737, A1001, A1002, A1003 (2 Storey House, Startup, Substructure, Super Structure)

File Edit View Project Enterprise Tools Admin Help

Activities

Projects Activities WBS

Layout: Classic Schedule Layout Filter: All Activities

Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
7737 2 Storey House					
A1001 Startup					
A1010	Startup	0	0	0%	16-Apr-20
A1020	Site Clearance	2	2	0%	16-Apr-20
A1030	Set Out	2	2	0%	17-Apr-20
A1002 Substructure					
A1040	Foundation	5	5	0%	20-Apr-20
A1050	Floor Slabs	5	5	0%	24-Apr-20
A1003 Super Structure					
A1060	Super Structure	20	20	0%	30-Apr-20
A1070	Roof	10	10	0%	27-May-20

General Status Resources Predecessors Successors Feedback

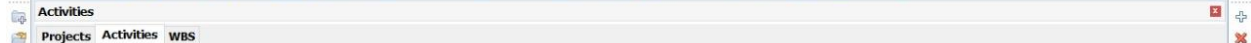
Activity: _____ Project: _____

Activity Type: _____ Duration Type: _____ % Complete Type: _____ Activity Calendar: _____

WBS: _____ Responsible Manager: _____ Primary Resource: _____

Portfolio: All Projects | Access Mode: Shared | Data Date: 14-Apr-20 | Baseline: Current Project | User: admin | DB: PMDB (Professional)

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Activities

Layout: Classic Schedule Layout Filter: All Activities

Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
A1020	Site Clearance	2	2	0%	16-Apr-20
A1030	Set Out	2	2	0%	17-Apr-20
A1002 Substructure		9	9	0%	20-Apr-20
A1040	Foundation	5	5	0%	20-Apr-20
A1050	Floor Slabs	5	5	0%	24-Apr-20
A1003 Super Structure		83	83	0%	30-Apr-20
A1060	Super Structure	20	20	0%	30-Apr-20
A1070	Roof	14	14	0%	27-May-20
A1080	Electric and Sanitaring	7	7	0%	27-Jul-20
A1090	Plastering	15	15	0%	04-Aug-20
A1004 Second Storey		51	51	0%	15-Jun-20
A1080	Wall Construction	15	15	0%	15-Jun-20
A1090	Shuting And Roofing	16	16	0%	06-Jul-20
A1100	Electric and Sanitaring	7	7	0%	27-Jul-20
A1110	Plastering	15	15	0%	04-Aug-20

General Status Resources Predecessors Successors Feedback

Activity: A1090 Plastering Project: A1003

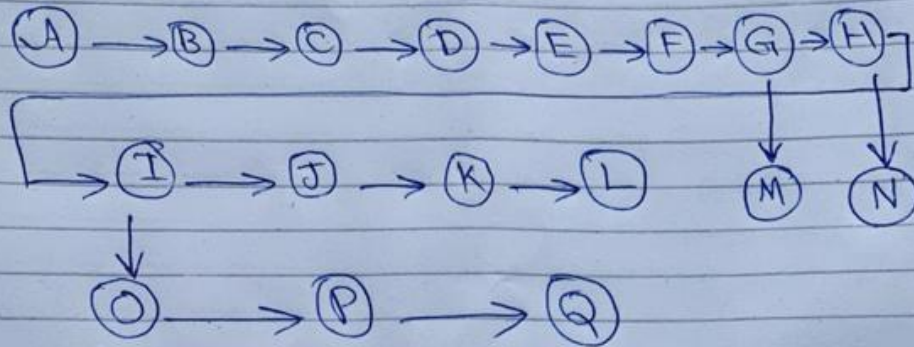
Activity Type: Task Dependent Duration Type: Fixed Duration & Units % Complete Type: Duration Activity Calendar: Corporate - Standard Full Time

WBS: A1003 Super Structure Responsible Manager: Enterprise Primary Resource: [User Icon]

Layout: Classic Schedule Layout		Filter: All Activities			Qtr 2, 2020 Qtr 3, 2020 Qtr 4, 2020											
Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
7737	2 Storey House	0	0	0%												
A1001	Startup	3	3	0%	16-Apr-20	20-Apr-20										
A1010	Startup	0	0	0%	16-Apr-20	16-Apr-20										
A1020	Site Clearance	2	2	0%	16-Apr-20	17-Apr-20										
A1030	Set Out	2	2	0%	17-Apr-20*	20-Apr-20										
A1002	Substructure	9	9	0%	20-Apr-20	30-Apr-20										
A1040	Foundation	5	5	0%	20-Apr-20	24-Apr-20										
A1050	Floor Slabs	5	5	0%	24-Apr-20*	30-Apr-20										
A1003	Super Structure	112	112	0%	30-Apr-20	02-Oct-20										
A1060	Super Structure	20	20	0%	30-Apr-20	27-May-20										
A1070	Roof	14	14	0%	27-May-20*	15-Jun-20										
A1080	Electric and Saniteing	7	7	0%	27-Jul-20*	04-Aug-20										
A1090	Plastering	15	15	0%	04-Aug-20*	24-Aug-20										
A1100	Doors and Window fitting	30	30	0%	24-Aug-20*	02-Oct-20										
A1004	Second Storey	80	80	0%	15-Jun-20	02-Oct-20										
A1080	Wall Construction	15	15	0%	15-Jun-20*	03-Jul-20										
A1090	Shutting And Roofing	16	16	0%	06-Jul-20*	27-Jul-20										
A1100	Electric and Saniteing	7	7	0%	27-Jul-20*	04-Aug-20										
A1110	Plastering	15	15	0%	04-Aug-20*	24-Aug-20										
A1120	Doors And Window Fitting	30	30	0%	24-Aug-20*	02-Oct-20										
A1005	Finishing	18	18	0%	02-Oct-20	27-Oct-20										
A1130	Floor Finishing	9	9	0%	02-Oct-20	14-Oct-20										
A1140	coloring and Painting	10	10	0%	14-Oct-20*	27-Oct-20										

Part C: Critical Path (CPM)

ACTIVITIES		PREDECESSORS	DURATION [DAYS]		
Startup	A		0		
Site Clearance	B	A	2		
Set Out	C	B	2		
Foundation	D	C	5		
Floor Slab	E	D	5		
Super Structure	F	E	20		
Roof	G	F	14		
Electric And Plumbing	H	G	7		
Plastering	I	H	15		
Door and Windows Fitting	J	I	30		
Wall Construction	K	J	15		
Shuttringe and Roofing	L	K	16		
Electric And Plumbing	M	G	7		
Plastering	N	H	15		
Door and Windows Fitting	O	I	30		
Floor Finishing	P	O	9		
Coloring And Painting	Q	P	10		



Path 1

$$A \xrightarrow{0} B \xrightarrow{2} C \xrightarrow{2} D \xrightarrow{5} E \xrightarrow{5} F \xrightarrow{20} G \xrightarrow{14} M = 48$$

Path 2

$$A \xrightarrow{0} B \xrightarrow{2} C \xrightarrow{2} D \xrightarrow{5} E \xrightarrow{5} F \xrightarrow{20} G \xrightarrow{14} H \xrightarrow{7} N = 55$$

Path 3

$$A \xrightarrow{0} B \xrightarrow{2} C \xrightarrow{2} D \xrightarrow{5} E \xrightarrow{5} F \xrightarrow{20} G \xrightarrow{14} H \xrightarrow{7} I \xrightarrow{15} J \xrightarrow{30} K \xrightarrow{15} L = 115$$

Path 4

$$A \xrightarrow{0} B \xrightarrow{2} C \xrightarrow{2} D \xrightarrow{5} E \xrightarrow{5} F \xrightarrow{20} G \xrightarrow{14} H \xrightarrow{7} I \xrightarrow{15} O \xrightarrow{30} P \xrightarrow{15} Q = 109$$

CPM is Path 3 = 115
which has more time

Q No. 4 Provide Maximum time
taken by Project.

We are start the Project
on 16 April 2020, and
finish this Project on
27 Oct 2020.

Month	Day
April	14
May	31
Jun	30
July	31
Aug	31
Sep	30
Oct	27

194 Day

194 Days Convert to Weeks

$$\frac{194}{7} = 27.71 \quad (0.71 \times 7) = 5$$

We have Complete this Project
on 27 weeks
and 5 days.

According to the forward
Pass and backward Pass

Q.05 Provide maximum time taken by Project.

Slack = late finish - early finish

Startup = $3 - 3 = 0$

Startup = $0 - 0 = 0$

Site clearance = $2 - 2 = 0$

Set out = $2 - 2 = 0$

Sub structure = $9 - 9 = 0$

Foundation = $5 - 5 = 0$

Floor Slabs = $5 - 5 = 0$

Super Structure = $112 - 112 = 0$

Super Structure = $20 - 20 = 0$

Roof = $14 - 14 = 0$

Electric & Sanitering = $7 - 7 = 0$

Plastering = $15 - 15 = 0$

Doors and Window fitting = $30 - 30 = 0$

Secomed Story = $80 - 80 = 0$

Wall Construction = $15 - 15 = 0$

Shutring & roofing = $16 - 16 = 0$

Electric & Sanitering = $7 - 7 = 0$

Plastering = $15 - 15 = 0$

Doors & window fitting = $30 - 30 = 0$

Finishing = $18 - 18 = 0$

Floor Finishing = $9 - 9 = 0$

Colouring & Painting = $10 - 10 = 0$

and So on all Values Comes Zero So no slack