

PROJECT PLANNING, MONITORING AND CONTROL

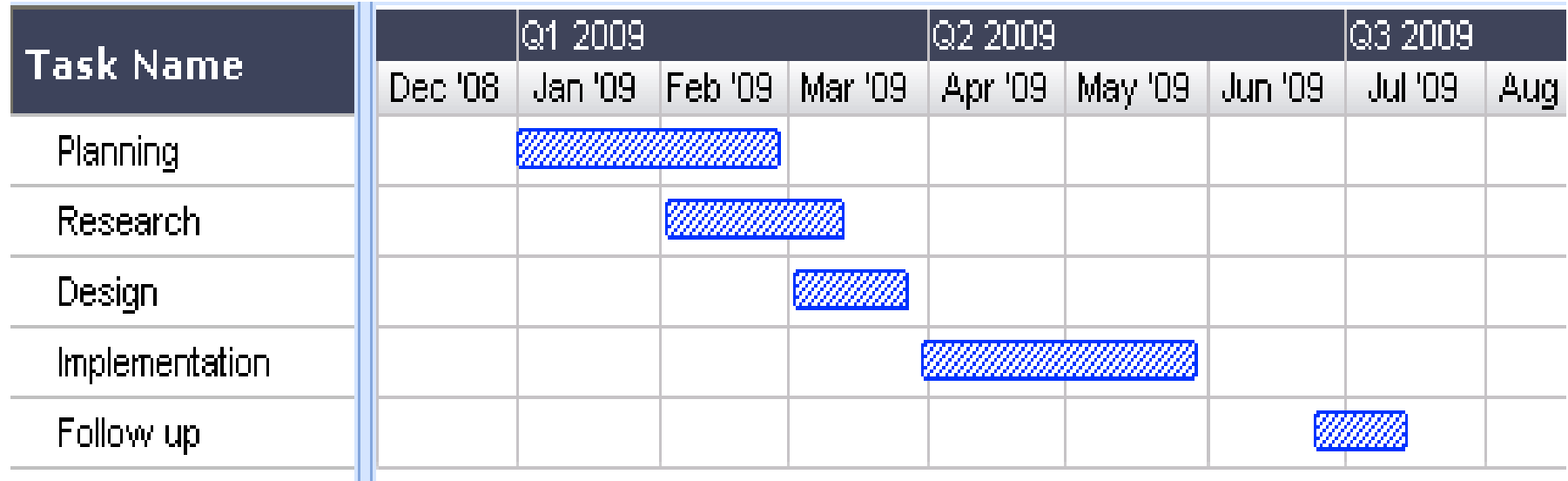
1 PROGRAMMING. BAR CHARTS

Review

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GANTT CHARTS



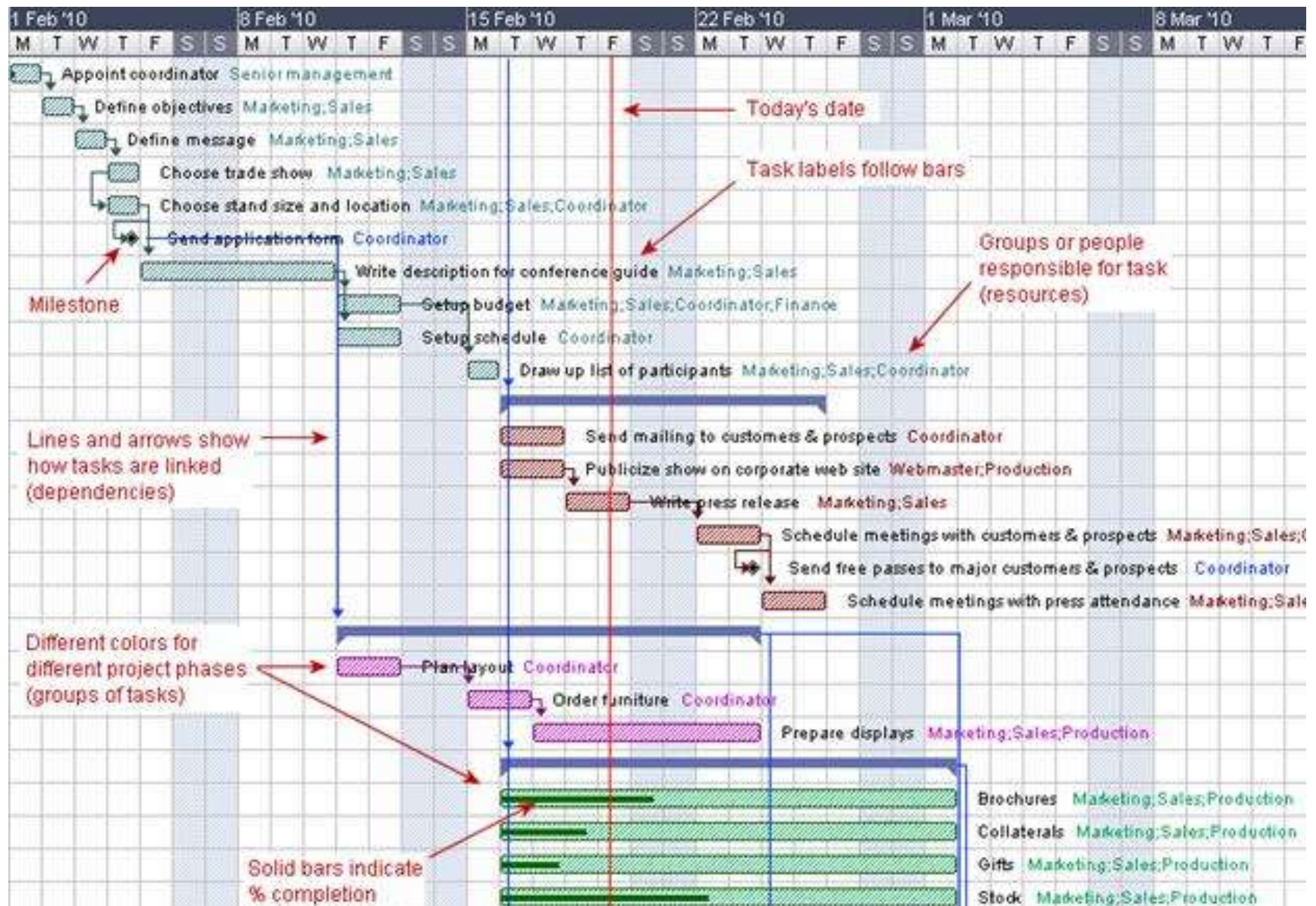
We can see at a glance:

- All activities
- When they start and finish
- Duration of every activity
- Overlapping of activities
- Start and end date of the whole project



COMMUNICATION

What can we show?





Computer applications

Microsoft Project

Oracle Primavera Project Plan

Mindview Business Edition

Asta Powerproject

CS Project

Better improvement

Larger capacities for programming

Cost analysis

Reports

Subcontractors management

Resources management

Monitoring and control



Steps

1. Detailed project plan. Interdependent tasks to be performed in order
2. Establishment of relationships
3. Definition of critical path
4. Definition of activity float (if it exists)

Better improvement

Larger capacities for programming

Cost analysis

Reports

Subcontractors management

Resources management

Monitoring and control



Relationships (links)

They establish the order in which every activity should start/finish

- Finish to start (FS)
- Start to Start (SS)
- Finish to Finish (FF)
- Start to Finish (SF)

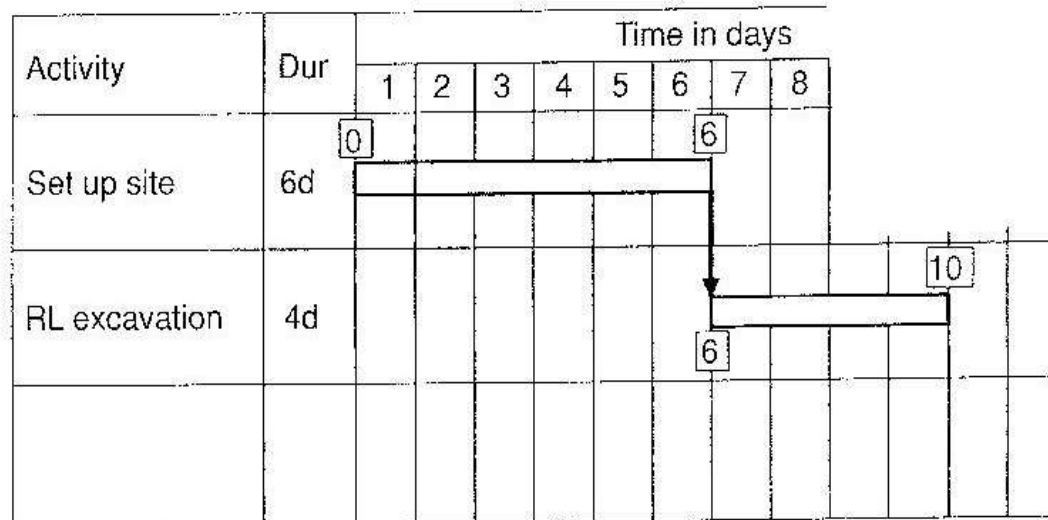


Relationships (links)

Finish to Start (FS)

The most common one

The task cannot start before the predecessor ends

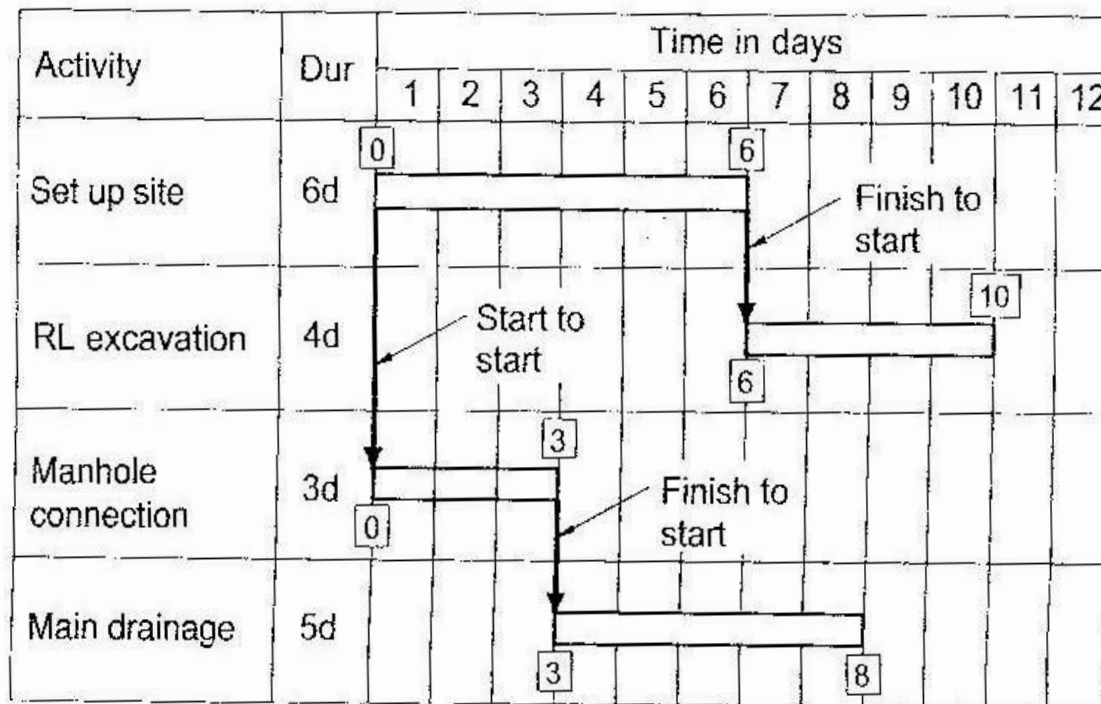




Relationships (links)

Start to Start (SS)

The task cannot start before the predecessor starts

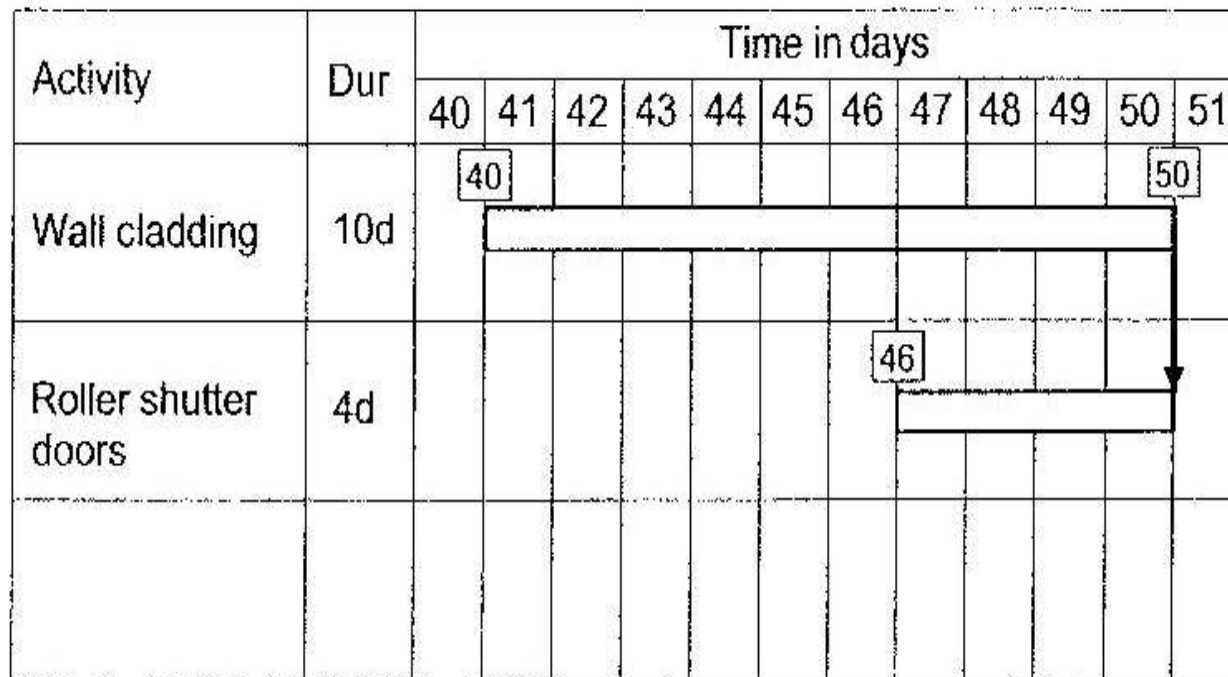




Relationships (links)

Finish to Finish (FF)

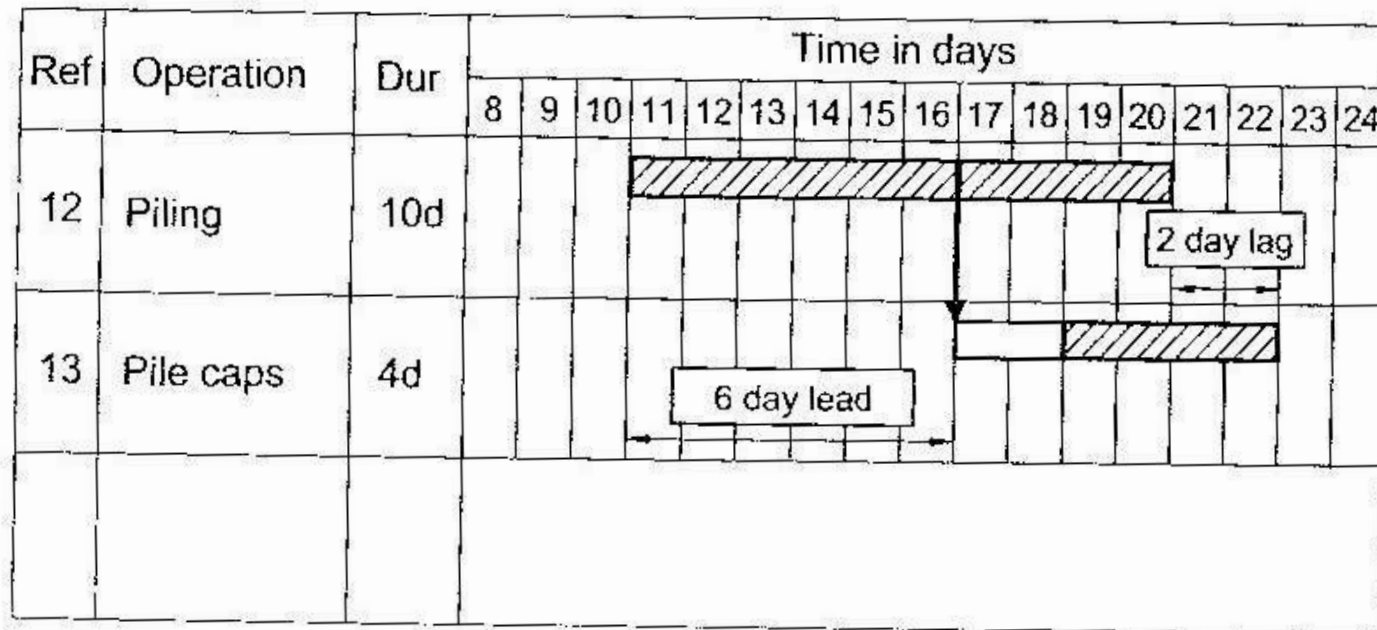
The task cannot end before the predecessor ends





Start to Finish (FF)

The task cannot end before the predecessor starts





EXERCISE 1

What type of relationships would you establish in the following bar chart?

Num	Activity	Duration	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7
1	General conditions	4w	■	■	■	■																							
2	Site layout	1w					■																						
3	Foundations	6w						■	■	■	■	■	■																
4	Framing	4w												■	■	■	■												
5	Building envelope	4w																■	■	■	■								
6	Exterior finishes	2w																			■	■							
7	Services	4w																				■	■	■	■				
8	Interior finishes	5w																					■	■	■	■	■		
9	Landscaping	2w																									■	■	
10	Final acceptance	1w																											■



EXERCISE 2

Draw the following bar chart with ASTA.

- Introduce all activities
- Make all necessary links

