



MONASH University

Information Technology

程序代写代做 CS 编程辅导

FIT2002



IT Project Management

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Lecture 5

Project Schedule Management

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## Video 1:

### Learning Obj

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- Understand the importance of project schedules and good project time management
- Discuss the process of planning schedule management
- Define activities as the basis for developing project schedules

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# Importance of Project Schedules

- Managers often cite getting projects on time as one of their biggest challenges
- Schedule issues are the main reason for conflicts on projects, especially during the second half of projects
- Time has the least amount of flexibility; it passes no matter what happens on a project



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# 程序代写代做 CS编程辅导 Individual Work Styles and Cultural Differences



## Schedule Conflicts

- One dimension of the Myers-Briggs Type Indicator focuses on peoples' attitudes toward structure and deadline
- Judgment/Perception (J/P) dimension concerns people's attitudes toward structure
- Some people prefer to follow schedules and meet deadlines while others do not (J vs. P)
- Difference cultures and even entire countries have different attitudes about schedules



# Media Snapshot



- In 2002 the Salt Lake Winter Olympic Games (SLOC) was awarded the Project Year award by PMI
  - Activities were timed to fit detailed project information within each department's schedule... “We knew when we were on and off schedule and where we had to apply additional resources.”
- The 2004 Athens Summer Olympic Games
  - “With just 162 days to go to the opening of the Athens Olympics, the Greek capital is still not ready ...”
  - Managed to deliver ... but the games cost more than twice the planned budget
- The 2014 Winter Olympic Games in Sochi, Russia, suffered even greater financial loss and were the most expensive games in history

# Project Schedule Management Processes

- **Planning schedule management:** determining the policies, procedures, and documentation that are needed for planning, executing, and controlling the project schedule
- **Defining activities:** identifying the specific **activities** that the project team members and stakeholders must perform to produce the project deliverables
- **Sequencing activities:** identifying and documenting the relationships between project activities
- **Estimating activity resources:** estimating how many **resources** a project team should use to perform project activities  
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- **Estimating activity durations:** estimating the number of work periods that are needed to complete individual activities  
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- **Developing the schedule:** analyzing activity sequences, activity resource estimates, and activity duration estimates to create the project schedule
- **Controlling the schedule:** controlling and managing changes to the project schedule



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# Project Schedule Management Summary

Estimate activity resources – this process is now moved to Project Resource Management in the new PMBOK 6<sup>th</sup> Edition

Planning



Process: Project management

Outputs: Management plan

Process: Activities

Outputs: Activity attributes, milestone list, project management plan updates

Process: Sequence activities

Outputs: Project schedule network diagrams, project documents updates

Process: Estimate activity resources

Outputs: Activity resource requirements, resource breakdown structure, project documents updates

Process: Estimate activity durations

Outputs: Activity duration estimates, project documents updates

Process: Develop schedule

Outputs: Schedule baseline, project schedule, schedule data, project calendars, project management plan updates, project documents updates

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Monitoring and Controlling

Process: Control schedule

Outputs: Work performance information, schedule forecasts, change

requests, project management plan updates, project documents updates, organizational process assets updates

Project Start

Project Finish



# Planning Schedule Management



- The project team uses judgment, analytical techniques, and meetings to develop a schedule management plan
- A schedule management plan includes:
  - Project schedule model development
  - The scheduling methodology
  - Level of accuracy and units of measure
  - Control thresholds
  - Rules of performance measurement
  - Reporting formats
  - Process descriptions

# Defining Activities



- An **activity** or **task** is a component of work normally found on the work breakdown structure (WBS) that has an expected duration, a cost, and resource requirements
- **Activity definition** involves developing a more detailed WBS and supporting explanations to understand all the work to be done so you can develop realistic cost and duration estimates
- **Goal:** to ensure that the project team completely understands all the work it must do as part of the project scope so the team can start scheduling
- Progressive elaboration of WBS item – “**rolling wave planning**”
- **Outputs:** activity list, activity attributes, a milestone list, and project management plan updates



# Activity Lists and Attributes



- An **activity list** is a list of activities to be included on a project schedule that
  - the activity name
  - an activity identifier or number
  - a brief description of the activity
- Activity attributes** provide more information such as predecessors, successors, logical relationships, leads and lags, resource requirements, imposed dates, and assumptions related to the activity

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# Milestones

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- A **milestone** is a significant event that normally has no duration
- It often takes several weeks and a lot of work to complete a milestone
- They're useful tools for setting schedule goals and monitoring progress
- Examples include obtaining customer sign-off on key documents or completion of specific products



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# Wrap up

## 程序代写代做 CS编程辅导 *Project Time Management*

Plann

Proce

Outpu

Proce



Project management

Management plan

ties

further defining the scope

further defining time

further defining time and cost

Outputs: Activity attributes, milestone list, project management plan updates

Process: Sequence activities

Outputs: Project schedule network diagrams, project documents updates

Process: Estimate activity resources

Outputs: Activity resource requirements, resource breakdown structure, project documents updates

Process: Estimate activity durations

Outputs: Activity duration estimates, project documents updates

Process: Develop schedule

Outputs: Schedule baseline, project schedule, schedule data, project calendars, project management plan updates, project documents updates

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Monitoring and Controlling

Process: Control schedule

Outputs: Work performance information, schedule forecasts, change requests, project management plan updates, project documents updates, organizational process assets updates

Project Start

Project Finish



## Video 2: Learning Obj

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- Describe how project managers use network diagrams and dependencies to assist in activity sequencing  
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- Understand the relationship between estimating resources and project schedules  
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- Explain how various tools help project managers perform activity duration estimates  
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# Sequencing Activities



- Involves reviewing activities and determining dependencies
- A **dependency** or relationship is the sequencing of project activities or tasks
- Relationships or dependencies among activities has a significant impact on developing and managing a project schedule

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# Three types of Dependencies

- **Mandatory dependencies:** inherent in the nature of the work being performed on the project, sometimes referred to as hard logic
- **Discretionary dependencies:** defined by the project team., sometimes referred to as soft logic and should be used with care since they may limit later scheduling options
- **External dependencies:** involve relationships between project and non-project activities



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# Network Diagrams



- Network diagrams are a preferred technique for showing activity sequencing
- A **network diagram** is a schematic display of the logical relationships among, or sequencing of, project activities
- Two main formats:
  - Arrow diagramming methods (or Activity-on-Arrow)
  - Precedence diagramming methods (or Activity-on-Node)

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# Arrow Diagramming Method (ADM)

- Also called **activity-on-node** (AOA) network diagrams
- **Activities** are represented by arrows
- **Nodes** or circles are the starting and ending points of activities
- Can only show **finish-to-start** dependencies; may have some difficulties showing other dependencies



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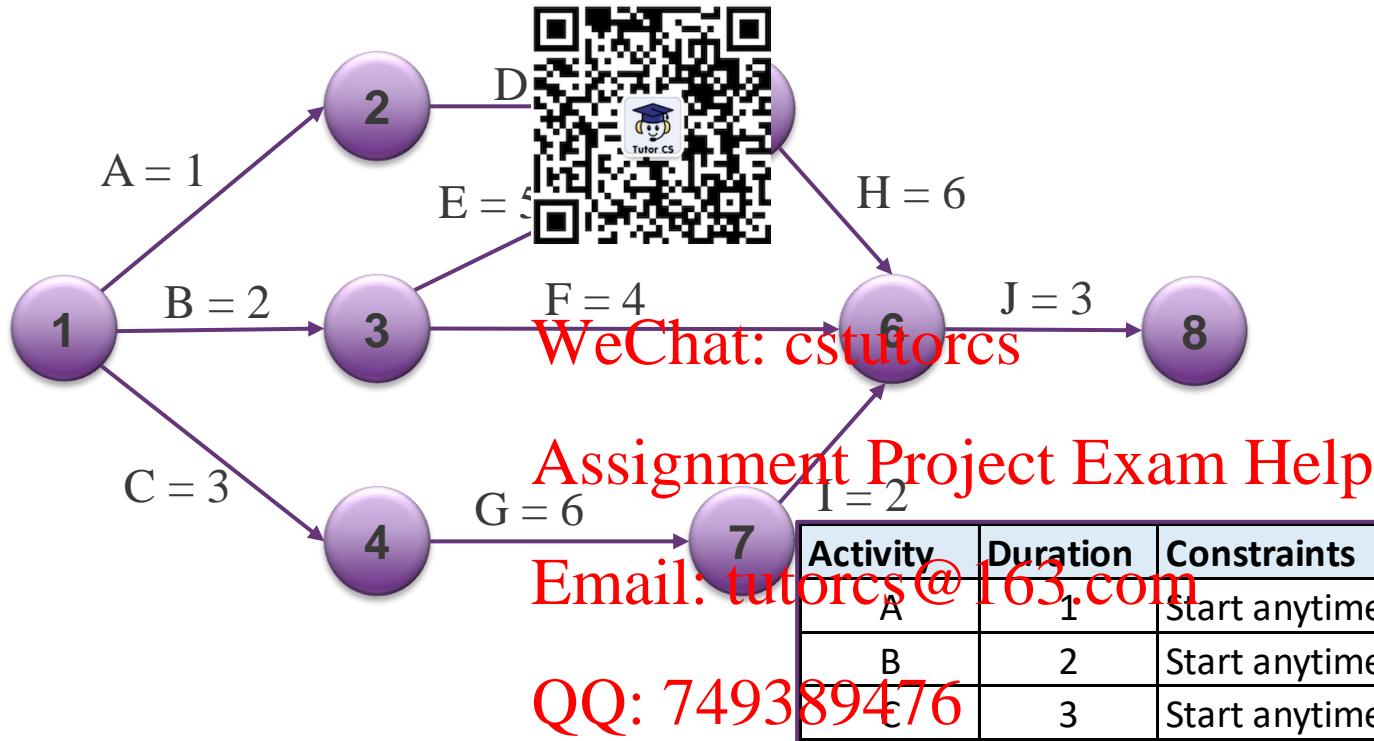
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# Process for Creating AOA Diagrams



1. Find all of the activities that start at node 1. Draw their finish nodes and draw arrows between those start nodes and those finish nodes. Put the activity letter or name and duration on the associated arrow
2. Continuing drawing the network diagram, working from left to right.  
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Look for bursts and merges.
  - **Bursts** occur when a single node is followed by two or more activities.
  - A **merge** occurs when two or more nodes precede a single node
3. Continue drawing the project network diagram until all activities are included on the diagram that have dependencies  
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4. As a rule of thumb, all arrowheads should face toward the right, and no arrows should cross on an AOA network diagram

# Example: ADM (or AOA) Network Diagram



Assume all durations are in days; A = 1 means Activity A has a duration of 1 day.

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Activity	Duration	Constraints
A	1	Start anytime
B	2	Start anytime
C	3	Start anytime
D	4	Start after A has finished
E	5	Start after B has finished
		Start after D has finished
F	4	Start after B has finished
G	6	Start after C has finished
H	6	Start after both D & E have finished
I	2	Start after G has finished
J	3	Start after both H, F & I have finished



# Precedence Diagramming Method (PDM)

- Also known as Activity On Node (AON)
- Activities are represented by boxes
- Arrows show relationships between activities
- More popular than ADM method and used by project management software
- Better at showing different types of dependencies



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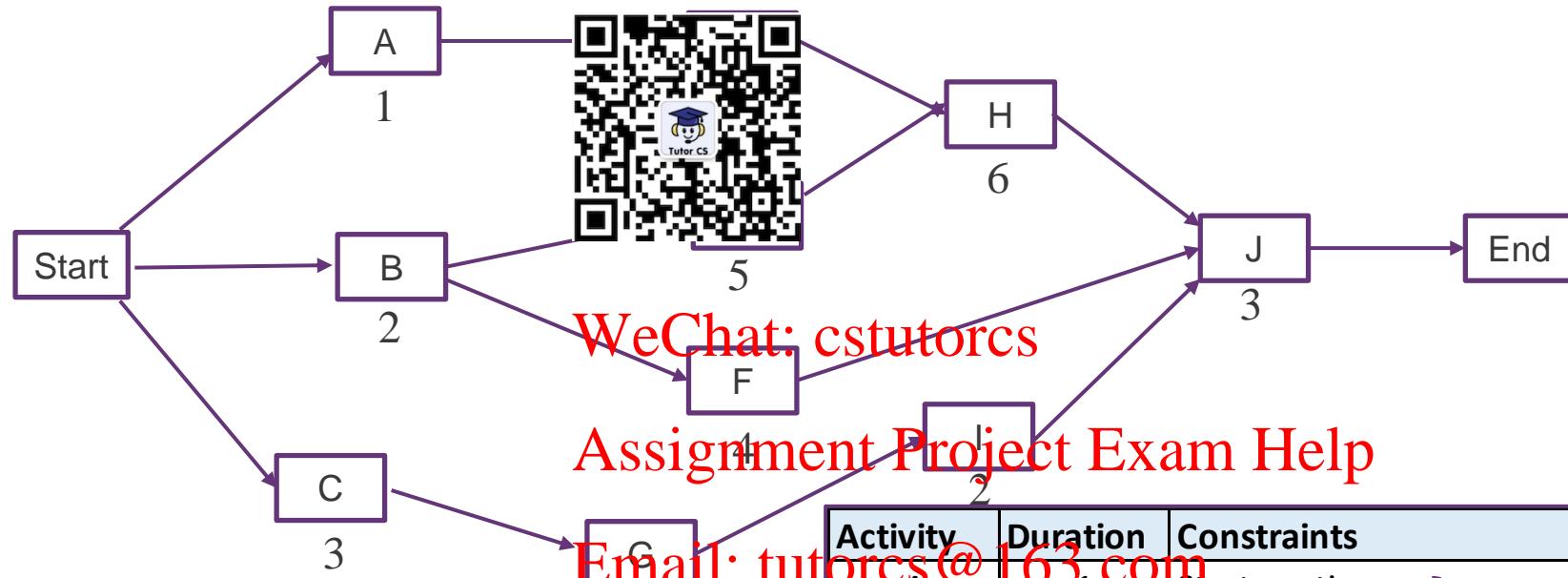
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# Example: PDM (or AON) Network Diagram



Assume all durations are in days. A = 1 means Activity A has a duration of 1 day.

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Activity	Duration	Constraints
A	1	Start anytime
B	2	Start anytime
C	3	Start anytime
D	4	Start after A has finished
E	1	Start after B has finished
F	4	Start after B has finished
G	6	Start after C has finished
H	6	Start after both D & E have finished
I	2	Start after G has finished
J	3	Start after both H, F & I have finished



# PDM Example Using Microsoft Project



**A**  
Start: Mon 8/3/09 ID: 1  
Finish: Mon 8/3/09 Dur: 1 day  
Res:

**D**  
Start: Tue 8/4/09 ID: 4  
Finish: Fri 8/7/09 Dur: 4 days  
Res:

**H**  
Start: Wed 8/12/09 ID: 8  
Finish: Wed 8/19/09 Dur: 6 days  
Res:

**B**  
Start: Mon 8/3/09 ID: 2  
Finish: Tue 8/4/09 Dur: 2 days  
Res:

**E**  
Start: Wed 8/5/09 ID: 5  
Finish: Tue 8/10/09 Dur: 5 days  
Res:

**J**  
Start: Thu 8/20/09 ID: 10  
Finish: Mon 8/24/09 Dur: 3 days  
Res:

**C**  
Start: Mon 8/3/09 ID: 3  
Finish: Wed 8/5/09 Dur: 3 days  
Res:

**G**  
Start: Thu 8/6/09 ID: 7  
Finish: Thu 8/13/09 Dur: 6 days  
Res:

**I**  
Start: Fri 8/14/09 ID: 9  
Finish: Mon 8/17/09 Dur: 2 days  
Res:

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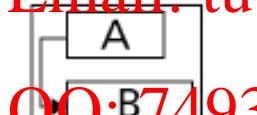
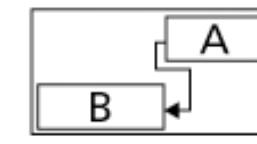
# Task Dependency Types



## Task dependencies

The nature of the relationships between two linked tasks. You link tasks by defining a dependency between their start dates. For example, the "Contact caterers" task must finish before the start of the "Determine menus" task. There are four kinds of task dependencies in Microsoft Project.

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Task dependency	Example	Description
Finish-to-start (FS)		Task (B) cannot start until task (A) finishes.
Start-to-start (SS)		Task (B) cannot start until task (A) starts.
Finish-to-finish (FF)		Task (B) cannot finish until task (A) finishes.
Start-to-finish (SF)		Task (B) cannot finish until task (A) starts.



## Video 3:

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### Learning Objectives



- Understand the relationship between estimating resources and project schedules
- Explain how various tools and techniques help project managers perform activity duration estimates
- Use a Gantt chart to plan and track schedule information

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# Estimating Activity Resources



- Before estimating activity resources, you must have a good idea of the quantity and type of resources that will be assigned to each activity; **resources** include people, equipment, and materials
- Consider important issues in estimating resources
  - How difficult will it be to do specific activities on this project?
  - What is the organization's history in doing similar activities?
  - Are the required resources available?
- A **resource breakdown structure** is a hierarchical structure that identifies the project's resources by category and type

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# Activity Duration Estimating



- **Duration** includes the amount of time worked on an activity plus elapsed time
- **Effort** is the number of workdays or work hours required to complete a task
- Effort does not normally equal duration
- People doing the work should help create estimates, and an expert should review them

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# Three-Point Estimates



- Instead of providing estimates as a discrete number, such as four weeks, it is helpful to create a **three-point estimate**
  - an estimate that includes an optimistic, most likely, and pessimistic estimate, such as three weeks for the optimistic, four weeks for the most likely, and five weeks for the pessimistic estimate
- Three-point estimates are needed for PERT and Monte Carlo simulations

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# Program Evaluation and Review Technique (PERT)



- PERT is a network technique used to estimate project duration when there is a high degree of uncertainty about the individual activity duration estimates
- PERT uses probabilistic time estimates
  - applies the critical path method (CPM) to a weighted average duration estimate
  - duration estimates based on using optimistic, most likely, and pessimistic estimates of activity durations, or a three-point estimate

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# PERT Formula and Example

- PERT weighted ave

optimistic time + most likely time + pessimistic time



- Example:

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PERT weighted average =

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8 workdays + 4 X 10 workdays + 24 workdays = 12 days  
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where optimistic time = 8 days

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Therefore, you'd use **12 days**

most likely time = 10 days, and

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on the network diagram

pessimistic time = 24 days

instead of 10 when using  
PERT for the above example

# Developing the Schedule

- Uses results of the other management processes to determine the start and end date of the project



- Ultimate goal is to create a realistic project schedule that provides a basis for monitoring project progress for the time dimension of the project

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- Important tools and techniques include:

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- Gantt charts,
- critical path analysis,
- critical chain scheduling, and
- PERT (Program Evaluation and Review Technique) analysis

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# Gantt Charts

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- Gantt charts provide a calendar format for displaying project schedule information by listing activities and their corresponding start and finish dates in a calendar-like grid.
- Adding Milestones to Gantt Charts
  - Milestones emphasize important events or accomplishments on projects
  - Normally create milestone by entering tasks with a zero duration, or you can mark any task as a milestone
- SMART Criteria – Milestones should be :
  - Specific
  - Measurable
  - Assignable
  - Realistic
  - Time-framed



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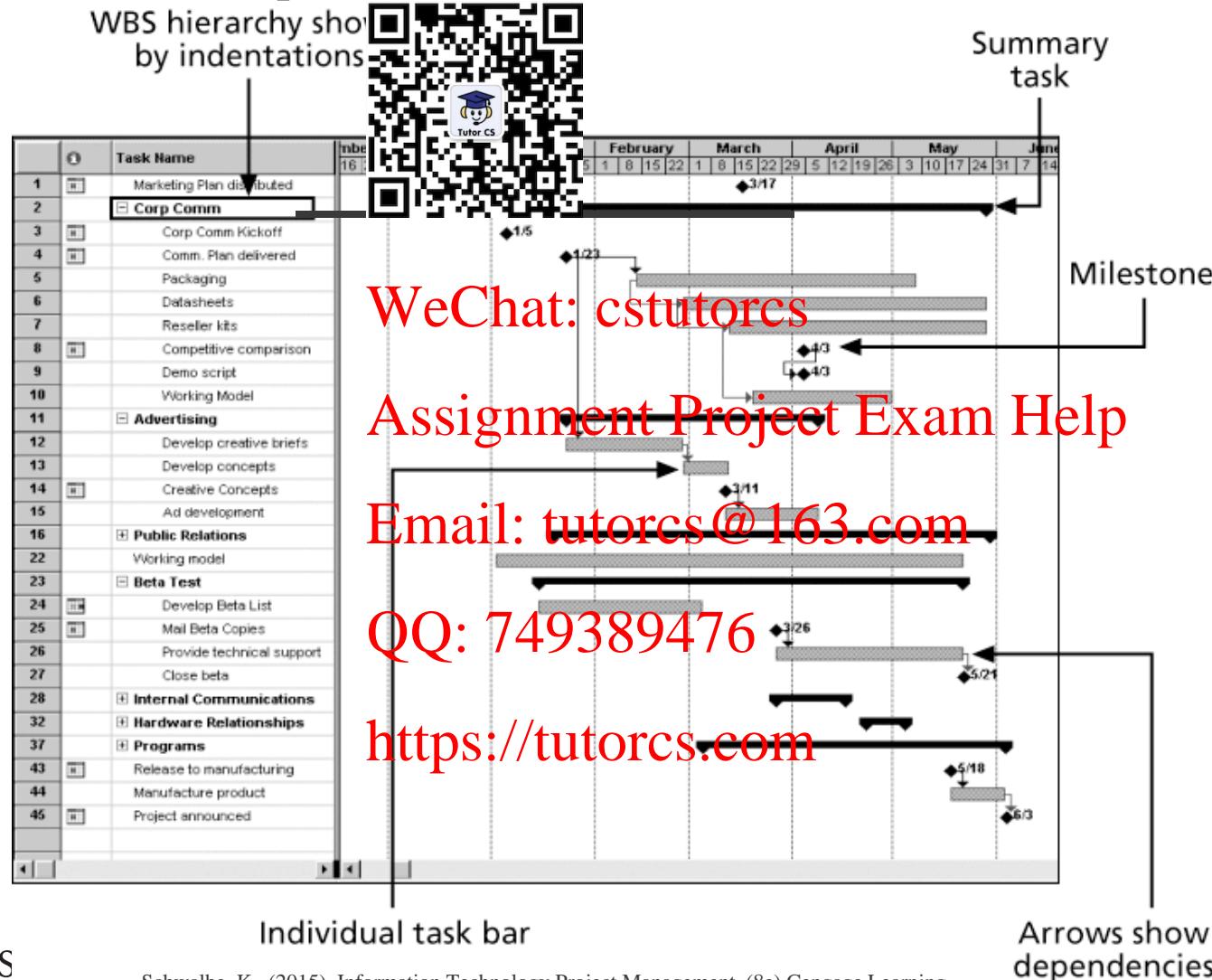
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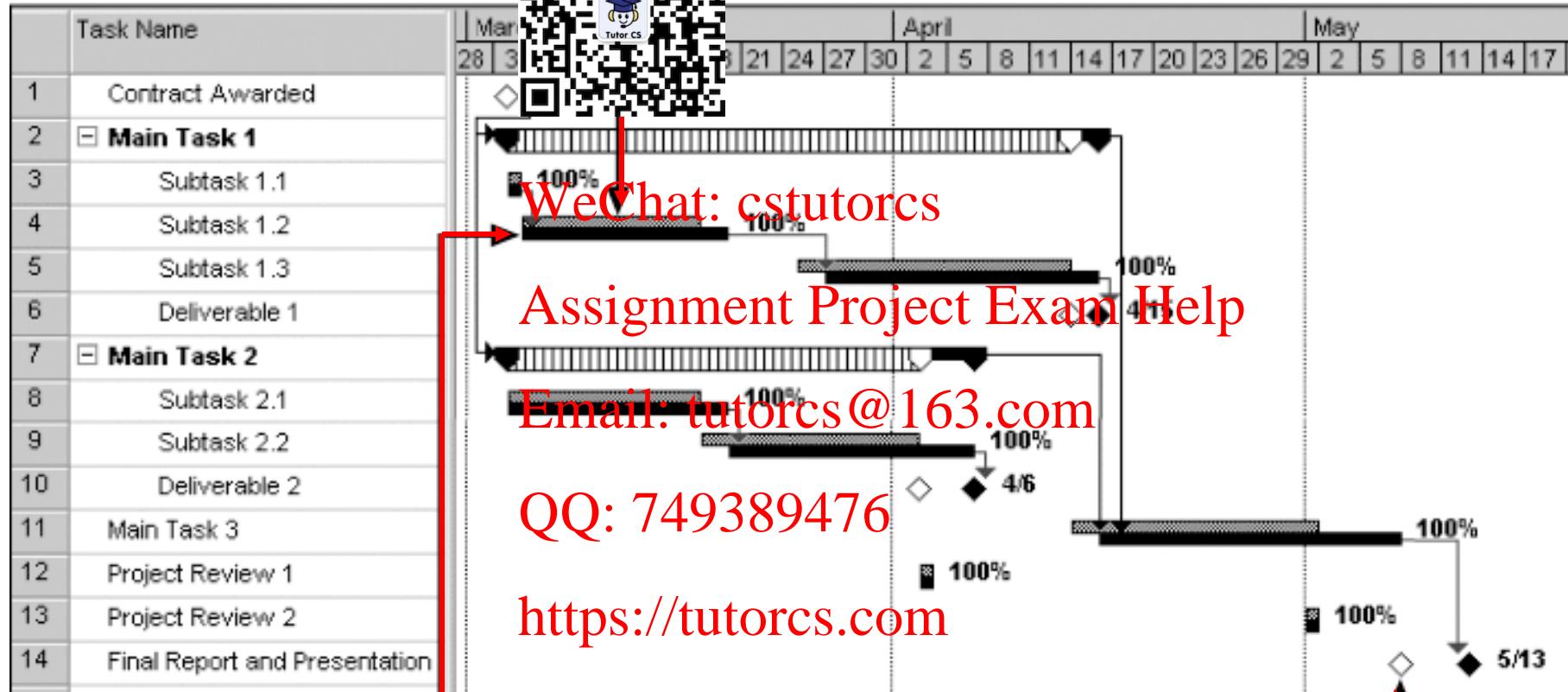


# An example of a Gantt Chart

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# Sample Tracking Gantt Chart



# Supplementary Video – Critical Path Analysis



## Learning Objectives

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- Find the critical path for a project
- Describe how critical chain scheduling and the Program Evaluation and Review Technique (PERT) affect schedule development

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# Critical Path Method (CPM)

- CPM is a network diagramming technique used to predict total project duration
- A **critical path** for a project is the series of activities that determines the *earliest time* by which the project can be completed
- The critical path is the *longest path* through the network diagram and has the least amount or zero slack or float
- **Slack or float** is the amount of time an activity may be delayed without delaying a succeeding activity or the project finish date



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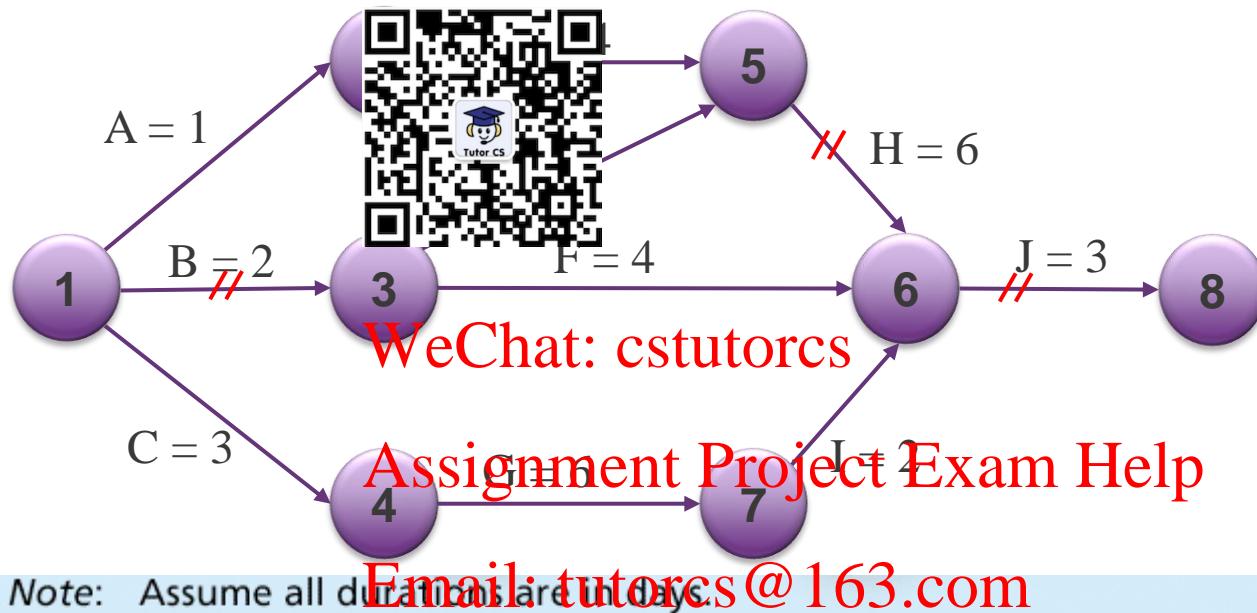
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# Calculating the Critical Path



- First develop a good network diagram
- Add the duration estimates for all activities on each path through the network diagram
- The longest path is the critical path
- If one or more of the activities on the critical path takes longer than planned, the whole project schedule will slip *unless* the project manager takes corrective action  
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- There can be more than one critical path if the lengths of two or more paths are the same  
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- The critical path can change as the project progresses  
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# Determining the Critical Path



Note: Assume all durations are in days.

Path 1: A-D-H-J      Length =  $1+4+6+3 = 14$  days

Path 2: B-E-H-J      Length =  $2+5+6+3 = 16$  days

Path 3: B-F-J      Length =  $2+4+3 = 9$  days

Path 4: C-G-I-J      Length =  $3+6+2+3 = 14$  days

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Since the critical path is the longest path through the network diagram, Path 2, B-E-H-J, is the critical path for Project X.



# Using Critical Path Analysis to Make Schedule Trade-offs



- **Free slack or free float** is the amount of time an activity can be delayed without delaying the early start of any immediately following activities **WeChat: cstutorcs**
- **Total slack or total float** is the amount of time an activity may be delayed from its early start without delaying the planned project finish date **Email: tutorcs@163.com**
- A **forward pass** through **QQ: 749389476** the network diagram determines the early start and finish dates  
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- A **backward pass** determines the late start and finish dates

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Refer to supplementary video on Network  
Calculation

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# Network calculations

Legend:  
 ES = early start  
 EF = early finish  
 LS = late start  
 LF = late finish

FF	ES	Activity	EF	TF
	LS	Duration	LF	

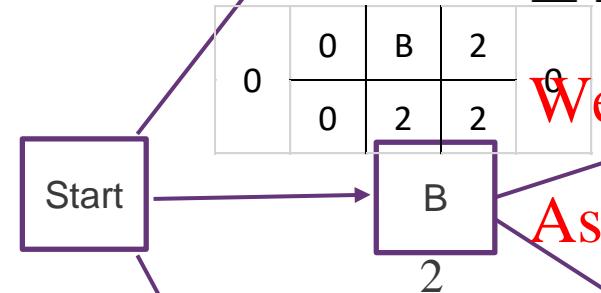
FF = Free Float  
 TF = Total Float

0	0	A	1	2
2	1		3	

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0	7	H	13	0
7	6	13		



0	0	B	2	9
0	2		2	

0	2	E	7	0
2	5	7		

7	2	F	6	7
9	4	13		

7	2	F	6	7
9	4	13		

0	0	C	3	2
2	3		5	

0	2	I	11	2
2	11	2	13	

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6	0	G	9	2
5	6	11		

$$\begin{aligned} FF_I &= ES_J - EF_I \\ FF_I &= 13 - 11 = 2 \end{aligned}$$

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## Table 6-1. Free and Total Float or Slack for

Task Name	Start	Finish	Early Start	Late Finish	Free Slack	Total Slack
A	8/3/15	8/3/15	8/3/15	8/5/15	0d	2d
B	8/3/15	8/4/15	8/3/15	8/4/15	0d	0d
C	8/3/15	8/5/15	8/3/15	8/7/15	0d	2d
D	8/4/15	8/7/15	8/6/15	8/11/15	2d	2d
E	8/5/15	8/11/15	8/5/15	8/11/15	0d	0d
F	8/5/15	8/10/15	8/14/15	8/17/15	7d	7d
G	8/6/15	8/13/15	8/10/15	8/17/15	0d	2d
H	8/12/15	8/19/15	8/12/15	8/19/15	0d	0d
I	8/14/15	8/17/15	8/18/15	8/19/15	2d	2d
J	8/20/15	8/24/15	8/20/15	8/24/15	0d	0d

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# Using the Critical Path to Shorten a Project Schedule



- Three main techniques for shortening schedules
  - Shortening durations of critical activities/tasks by adding more resources or changing their scope
  - **Crashing** activities by obtaining the greatest amount of schedule compression for the least incremental cost
  - **Fast tracking** activities by doing them in parallel or overlapping them

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# Importance of Updating Critical Path Data

- It is important to update project schedule information to meet time goals for a project
- The critical path may change as you enter actual start and finish dates
- If you know the project completion date will slip, negotiate with the project sponsor



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# Critical Chain Scheduling

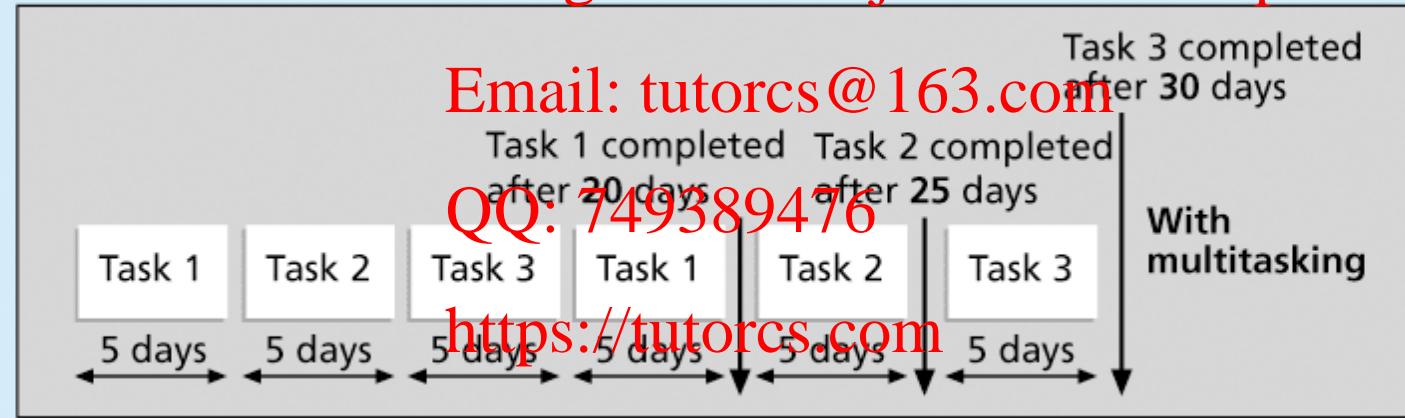


- Critical chain scheduling
  - a method of scheduling that considers limited resources when creating a schedule and includes buffers to protect the project completion date
- Uses the Theory of Constraints (TOC)
  - management philosophy developed by Eliyahu M. Goldratt and introduced in his book *The Goal* ([www.goldratt.com](http://www.goldratt.com))
  - improving other things besides the constraint does nothing to improve the system
  - an important concept is the availability of scarce resources.
- Attempts to minimize multitasking
  - when a resource works on more than one task at a time

# Multitasking Example



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# Buffers and Critical Chain

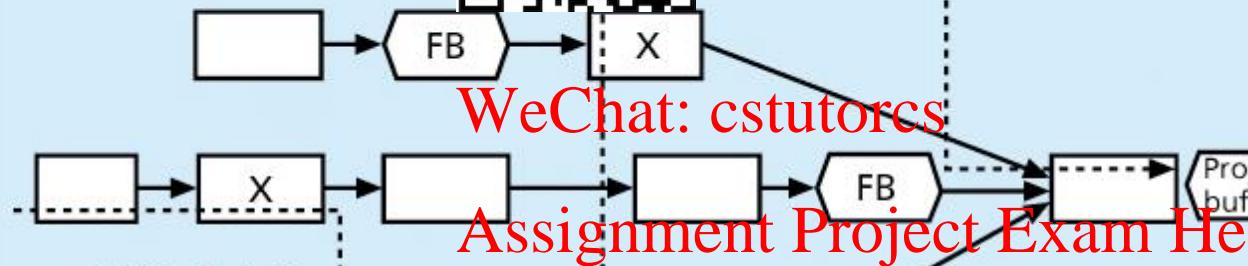


- In traditional estimation, people often add a buffer to each task and use it if it's needed
- A **buffer** is additional time to complete a task
- **Murphy's Law** states that if something can go wrong, it will
- **Parkinson's Law** states that work expands to fill the time allowed
- Critical chain scheduling removes buffers from individual tasks and instead creates
  - a **project buffer** or additional time added before the project's due date
  - **feeding buffers** or additional time added before tasks on the critical path

# Example of Critical Chain Scheduling



critical chain



Completion  
date

Critical chain

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X = Tasks done by limited resource

FB = Feeding buffer



## Video 4: Learning Obj

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- Understand how time management is addressed using Agile
- Discuss how reality checks and discipline are involved in controlling and managing changes to the project schedule

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# Controlling the Schedule



- Goals are to know the **程序代写代做 CS编程辅导** of the schedule, influence factors that cause schedule changes, determine that the schedule has changed, and manage changes when they occur
- Tools and techniques include  
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  - Progress reports
  - A schedule change control system
  - Project management software including schedule comparison charts like the tracking Gantt chart  
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  - Variance analysis, such as analyzing float or slack
  - Performance management, such as earned value
  - Resource optimization techniques, such as resource leveling

# Agile and Time Management



- Core values of the **敏捷和时间管理** for Agile Software Development are
  - Customer collaboration over contract negotiation
  - Responding to change over following a plan
- The product owner defines and prioritizes the work to be done within a sprint, so **Assignment Project Exam Help** are designed into the process
- Teams focus on producing a useful product in a specified timeframe with strong **Customer input**
- Don't emphasize defining all the work before scheduling it  
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# Schedule Control Suggestions

- Perform reality checks on schedules
- Allow for contingencies
- Don't plan for everyone to work at 100% capacity all the time
- Hold progress meetings with stakeholders and be clear and honest in communicating schedule issues



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# Reality Checks on Scheduling

- First review the draft schedule or estimated completion date in the project charter
- Prepare a more detailed schedule with the project team
- Make sure the schedule is realistic and followed
- High-level periodic reviews
- Alert top management well in advance if there are schedule problems



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# Working with People Issues

- Strong leadership helps projects succeed more than good PERT charts
- Project managers should use
  - empowerment
  - incentives
  - discipline
  - negotiation



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# Using Software to Assist in Time Management

- Software for facilitating communications helps people exchange schedule-related info
- Decision support models help analyze trade-offs that can be made
- Project management software can help in various time management areas



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# Lecture Summary

程序代写代做 CS编程辅导

- Project time management often cited as the main source of conflict on projects,  IT projects exceed time estimates
- Main processes include:
  - Plan schedule management
  - Define activities
  - Sequence activities
  - Estimate activity resources
  - Estimate activity durations
  - Develop schedule
  - Control schedule