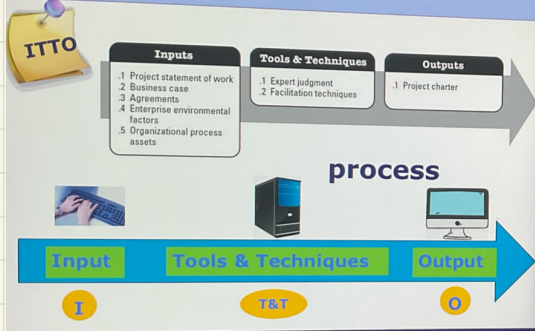


# ITTO

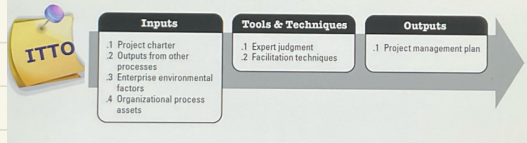
## Section 2.1 Develop Project Charter



## Section 2.2 Develop Project Management Plan

### Develop Project Management Plan

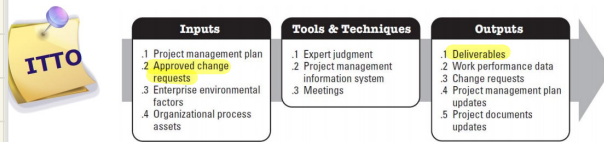
Develop Project Management Plan is the process of defining, preparing, and coordinating all subsidiary plans and integrating them into a comprehensive project management plan. The key benefit of this process is a central document that defines the basis of all project work.



## Section 2.3 Direct and Manage Project Work

### Direct and Manage Project Work

- Direct and Manage Project Work is the process of leading and performing the work defined in the project management plan and implementing approved changes to achieve the project's objectives.
- The key benefit of this process is that it provides overall management of the project work.



## Section 2.3 Direct and Manage Project Work



### 1. Project Management Plan

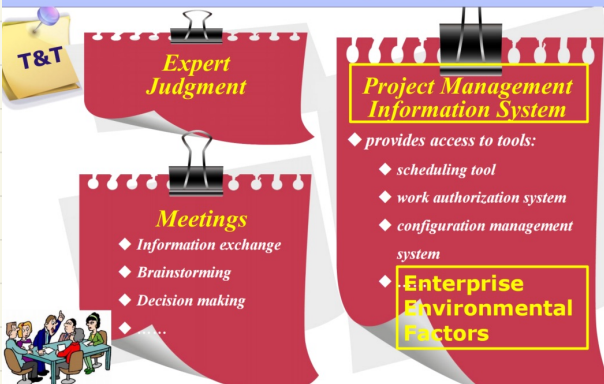
- Output of the process of "develop project management plan"

### 2. Approved Change Requests

### 3. Enterprise Environmental Factors

### 4. Organizational Process Assets

## Section 2.3 Direct and Manage Project Work



## Section 2.3 Direct and Manage Project Work



### Deliverables

- any unique and verifiable product, result or capability to perform a service that is required to be produced to complete a process, phase, or project.

### Work Performance Data

- work completed
- key performance indicators
- technical performance measures
- start and finish dates of schedule activities
- number of change requests, number of defects
- ...

### Change Requests

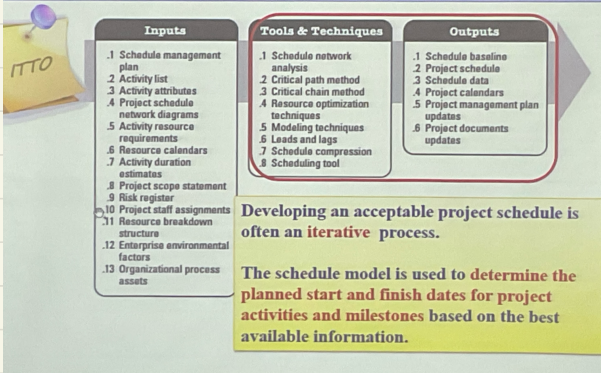
### Project Management Plan Updates

### Project Documents Updates



## Section 4.5 Develop Schedule

53



## Section 4.5 Develop Schedule

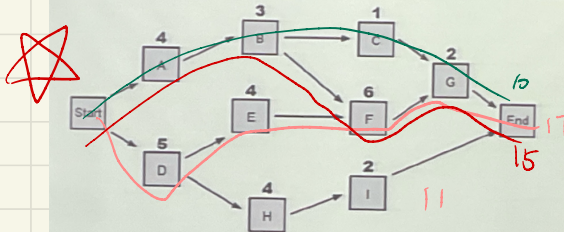
58

### Critical path method

A method used to estimate the **minimum project duration** and determine the **amount of scheduling flexibility** on the logical network paths within the schedule model.

This schedule network analysis technique calculates the **early start, early finish, late start, and late finish dates** for all activities without regard any resource limitations by performing a **forward and backward pass analysis** through the schedule network.

大题不考资源限制



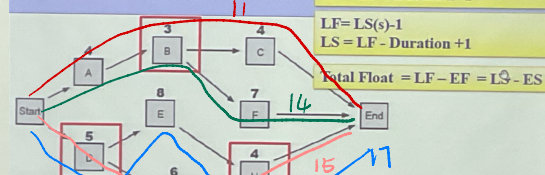
How many paths 4

Critical path Start → D → E → F → G → End

Write down the Float for each activity:

A 2 B 2 C 7 D 0 E 0  
F 0 G 0 H 6 I 6

est



How many paths 4

Critical path Start → D → E → H → End

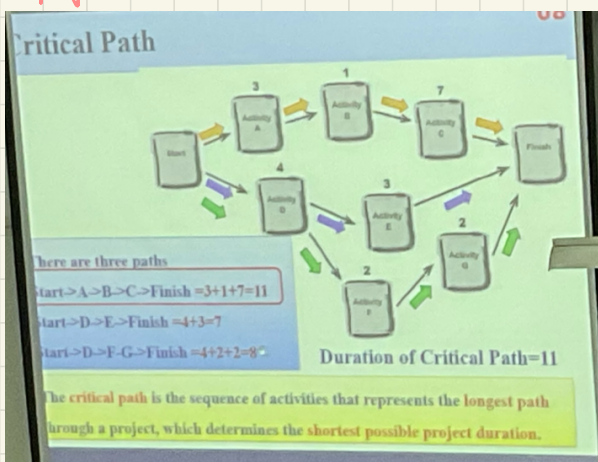
Write down the Float for each activity:

A 2 B 3 C 6 D 0  
E 0 F 3 G 2 H 0

Calculate the ES, EF, LS, LF of each activity

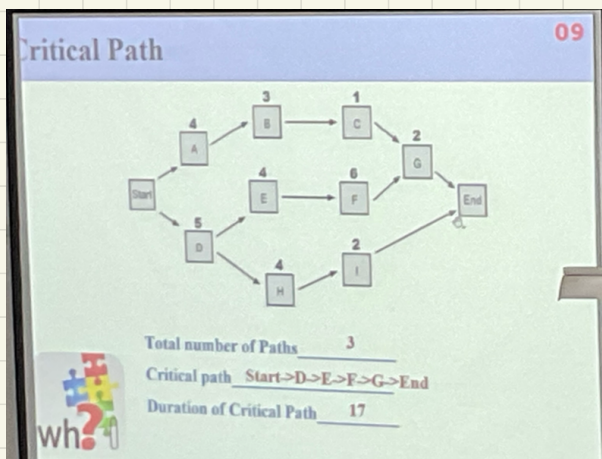
72

# 问答题



1-2分

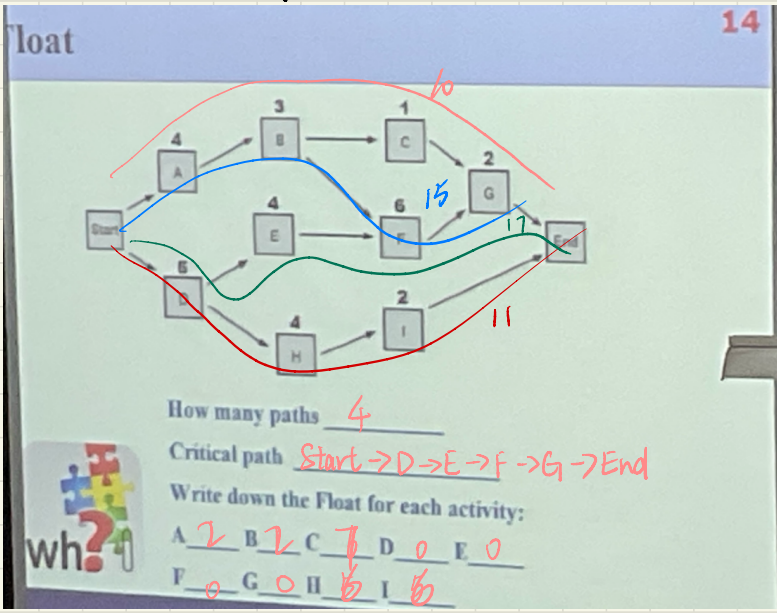
从 Start 开始 End 结束



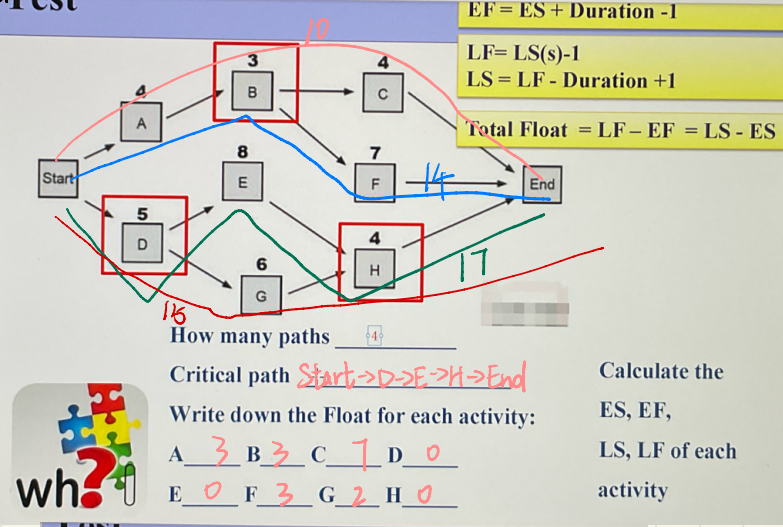
先选关键路径 (Float = 0)

再选次长的

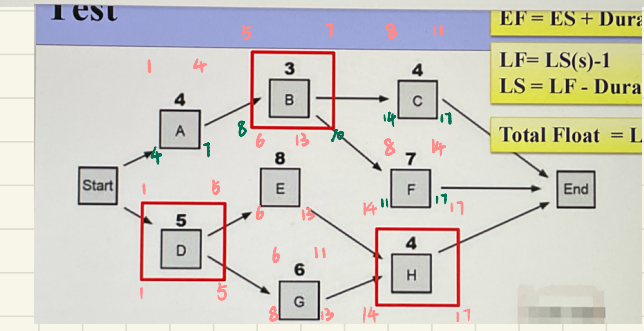
如果一个活动同时在 2 条路径, 取 Float 小的



大题一 12分



考试只到 G



小疑惑  
无了, LF取最小值的



## Test 大題二 8分

### 3. Calculations

- (1) According to the tables below, please calculate the UFC, TCF and FP for this software project.
- (2) If the productivity of this project is 15 hours/FP, then please calculate the workload of this project.
- (3) If the cost for each labor hour is ¥100/hour, what is the total cost of this project.

# Test

Feature Count items	counts
External input	1 medium
External Output	1 complex
External inquiry	1 simple
External interface file	1 simple, 2 medium
Internal documents	2 simple

Feature Count items	Complexity Weight		
	simple	medium	complex
External input	3	4	6
External Output	4	5	7
External inquiry	3	4	6
External interface file	5	7	10
Internal documents	7	10	15

Technical complexity factors					
F1	Reliable backup and recovery	1	F2	data communication	3
F3	Distributed function	2	F4	performance	2
F5	Large use of configuration	1	F6	On-line data entry	4
F7	Simplicity of operation	1	F8	Online upgrade	2
F9	Complex interface	1	F10	Complex data processing	3
F11	Reusability	4	F12	Installation simplicity	2
F13	Multiple Sites	2	F14	Easy to modify	3

$$UFC = 1 \times 4 + 1 \times 7 + 1 \times 3 + 1 \times 5 + 2 \times 7 + 2 \times 7 = 47$$

$$\sum(F_i) = 31$$

$$TCF = 0.65 + 0.01 (\sum(F_i)) = 0.65 + 0.31 = 0.96$$

$$FP = UFC \times TCF = 45.12$$

$$(2) \text{ Workload} = 15 \times FP = 676.8 \text{ hours}$$

$$(3) \text{ Total cost} = 676.8 \times 100 = 67680 \text{ ¥}$$

## 大題三 13分

Your project has a total budget of \$300,000. You check your records and find that you've spent \$175,000 so far. The team has completed 40% of the project work, but when you check the schedule it says that they should have completed 50% of the work. Calculating the following:

$$\begin{aligned} BAC &= \$300,000 & PV &= \$300,000 \times 30\% = \$90,000 \\ AC &= \$175,000 & EV &= \$300,000 \times 40\% = \$120,000 \\ SV &= EV - PV = \$120,000 - \$90,000 = \$30,000 \\ CV &= EV - AC = \$120,000 - \$175,000 = \$-55,000 \end{aligned}$$

$$SPI = \frac{EV}{PV} = \frac{120,000}{90,000} = 1.33$$

$$CPI = \frac{EV}{AC} = \frac{120,000}{175,000} = 0.68$$

Cost overrun and schedule over budget

答案是 0.68

It's nine months into your project. The total budget for your project is \$4,200,000. You've spent \$1,650,000 so far, and you've got a CPI of 0.875. Use the Earned Value Technique formulas from forecasting to figure out where things stand.

$$EAC = \frac{BAC}{CPI} = \frac{4,200,000}{0.875} = 4,800,000$$

$$ETC = EAC - AC = 4,800,000 - 1,650,000 = 3,150,000$$

$$VAC = BAC - EAC = 4,200,000 - 4,800,000 = -600,000$$

$$BAC = 4,200,000$$

$$AC = 1,650,000$$

$$CPI = 0.875$$

$$EAC = \frac{BAC}{CPI} = \frac{4,200,000}{0.875} = 4,800,000$$

$$EAC = \frac{BAC}{CPI} = \frac{4,200,000}{0.875} = 4,800,000$$

$$ETC = EAC - AC$$


$$VAC = BAC - EAC$$

Will the project be over or under budget when it's complete?

-600,000 over budget

Test

Which of the following activities are not projects, why?



Yes No

1. Explore Mars for signs of life ✓

2. Report to department manager for monthly work ✗


3. The development of new versions of the operating system ✓

4. Updating the website 12306.cn ✓


5. Daily cleaning is a project ✗

There is a haze boundary between the non-routing project and the routing job.

The first time you do a routine task it will be like a project



Test



Yes No

1. A portfolio is a set of related projects that together deliver a specific business objective.

2. A project could be part of a program, or exist individually. ✓

3. A program consists of all the projects being undertaken by an organization.

内容	正确性	原因解析
Portfolio is a set of related projects that deliver a specific business objective. 项目集是一组相关的项目，共同实现特定业务目标。	No ✗	错误： - 项目组合 (Portfolio) 包含的是不一定相关的项目、项目集和其他工作 (如运营活动)，它们按战略优先级组合，目标是实现组织整体战略目标。 - 描述中“related projects”属于项目集 (Program) 的特征，而非项目组合。
Project could be part of a program, or individually. 项目可以属于项目集，也可以独立存在。	Yes ✓	正确： - 项目 (Project) 具有灵活性： ✓ 可独立运作 (如开发一个独立软件)； ✓ 可归属于项目集 (Program) (如“智能家居生态系统开发”项目集中的硬件研发子项目)。
Program consists of all the projects being undertaken by an organization. 项目集包含组织正在进行的所有项目。	No ✗	错误： - 项目集 (Program) 仅包含相互关联且需协调管理的项目 (如“新冠疫苗研发”项目集包含临床试验、生产设施建设等关联项目)。 - 组织所有项目的集合属于项目组合 (Portfolio)，而非单个项目集。

Test True or false? 15

- In the functional organizational structure, the project manager manages the project budget. ✗
- In the projectized organizational structure, the project manager has high authority. ✓

Tests-week 2: true or false

- 1. Software project management is important for improving professional qualities. ✓
- 2. A software project is always visible. ✗
- 3. In the functional organizational structure, the project manager manages the project budget. ✗
- 4. In the projectized organizational structure, the project manager has high authority. ✓
- 5. Agile model provides an opportunity for quick and frequent feedback to keep the project on the right track. ✓
- 6. Waterfall model belongs to the Adaptive Life Cycle. ✗
- 7. Process is able to transform the structured management to unstructured management. ✗

Tests-Week 2

- 8. What are Five Process Groups?
  - Initiating, planning, executing, monitoring & controlling, closing
- 9. What is Software Project Management?
  - Software Project Management is a system management method based on software project, which uses the relevant knowledge, techniques and tools for planning, organizing, advising and controlling each stage of software project cycle to achieve the project objectives.
- 10. Please list the 8 activities of Software Development Life Cycle?
  - Requirements Analysis, Architecture Design, Detailed Design, Code and Test, Integration, Qualification Testing, Installation, Acceptance Support



## Section 2.2 Develop Project Management Plan



Enterprise Environmental Factors

- Affect the project
- Can not be affected
- Systems

V.S.

Organizational Process Assets

- plans, processes, policies, procedures, and knowledge bases

Test: True or false?

1. Enterprise Environmental Factors are under the control of the project team. **X**
2. Project management plan is a kind of Organizational Process Assets. **X**

### Test- true or false?

1. The project charter is produced during the **initiating** planning stage of the project. **X**
2. The Project Management Plan is approved by the sponsor. **✓**

### Test- true or false?

1. In the process of Perform Integrated Change Control, Changes can only be requested by project manager. **X** any stakeholder
2. In the process of Perform Integrated Change Control, Change Requests should be recorded in written form. **✓**
3. The Approved Change Requests will be taken as an **input** of Perform Integrated Change Control process. **X**  
input of Direct and Manage Project Work

### Test- true or false?

1. The release of organization resources is needed in the Close Project process. **✓**
2. Work Performance Reports are produced based on Work Performance Information. **✓**

### Test

The **product scope** is measured against the ()

- A. Measure of success
- B. **Requirement**
- C. Scope baseline
- D. Contract



Completion of the **project scope** is measured against ()

- A. Requirement
- B. Scope baseline
- C. **Project management plan**
- D. The sponsor



## Section 3.2 Collect Requirements

44

1. You have a geographically dispersed team, from whom you would like to get expert opinion about your project. Which information gathering technique should you use:

- A. Brainstorming
- B. Affinity Diagram
- C. Delphi Technique ✓
- D. Focus group ✗



2. As a project manager, you are organizing a brainstorming meeting to collect requirements. You can interrupt someone if you think they are wrong. (true or false) ✗

题目： 您有一个地理分散的团队，希望从中获取关于项目的专家意见。应使用以下哪种信息收集技术？

选项：

- A. 头脑风暴 (Brainstorming)
- B. 亲和图 (Affinity Diagram)
- C. 德尔菲技术 (Delphi Technique)
- D. 焦点小组 (Focus Group)

正确答案： C. 德尔菲技术 (Delphi Technique)

解析：

- 德尔菲技术 专为地理分散的专家设计，通过匿名、多轮问卷收集意见，最终达成共识。
  - 匿名性：避免权威人物主导讨论。
  - 迭代反馈：汇总意见后多轮修正，提升结论准确性。
  - 无地域限制：依赖书面沟通，适合分散团队。
- 其他选项排除：
  - A. 头脑风暴：需实时互动，地理分散团队难以高效执行。
  - B. 亲和图：用于归类头脑风暴的产出，非独立收集技术。
  - D. 焦点小组：需集中干系人现场讨论，不适合分散团队。

## Test

### Which is the purpose of WBS?



- A. To show which work elements have been assigned to organizational units
- B. To show the organizational structure of a program
- C. To ensure that all work within a project is identified and defined within a common framework ✓
- D. All of the above

正确答案： C

解析：

- 1. 选项A (错误)：
  - 描述的是 **组织分解结构 (OBS, Organizational Breakdown Structure)** 的作用，而非WBS。
  - OBS 将工作包 (Work Packages) 映射到部门/团队，用于明确责任分工。
- 2. 选项B (错误)：
  - 描述的是 **组织架构图 (Organizational Chart)** 的作用，用于显示汇报关系和团队层级。
  - WBS 聚焦于 **工作成果 (Deliverables)**，而非人员结构。
- 3. 选项C (正确)：
  - **WBS 的根本目的**是：
    - 将项目范围逐层分解为可管理的组成部分 (可交付成果—控制账户—工作包)。
    - 遵循 **100%规则**：包含项目全部工作，无遗漏或重叠。
    - 建立统一框架，为进度、成本、资源规划提供基础。
- 4. 选项D (错误)：
  - A、B 选项与WBS无关，因此不可能是“全部”。

## Test

Which of the following is TRUE about a work breakdown structure?

- A、It contains work packages that are described in a linear, **unstructured** list. ✗
- B、Each item in the WBS represents a feature in the **product** scope, ✗
- C、The WBS represents **all** of the work that must be done on the project. ✓
- D、The WBS is created by the product sponsor and stakeholders. ✗

The WBS is a **hierarchical** decomposition of the **total** scope of work to be carried out by the **project team** to accomplish the project objectives and create the required deliverables.

## Test

Using the WBS shown below (right), a typical work package would be ?

- A. Software development
- B. Systems design
- C. Flowcharting ✓
- D. Coding

- 1. S/W development
  - 1.1 Systems design
    - 1.1.1 H/W requirement
    - 1.1.2 Flowcharting
  - 1.2 Coding
  - 1.2.1 Language selection

## Test

A work package is a ?

- A. Required level of reporting
- B. Task with a unique identifier
- C. Task that can be assigned to more than one organizational unit
- D. Deliverable at the lowest level of the WBS ✓



## Test

Which is **NOT** included in a scope baseline?

- A、Project scope statement
- B、WBS
- C、WBS Dictionary
- D、Requirements document

## Test 86

In a software project, a programmer thinks of a way to make a feature better and just implements it, without talking it over with anybody. This situation belongs to:

- A. Scope creep
- B. Gold plating

## Test: true or false? 15

1. Final output of Define Activities is described as ~~work packages~~. *activities* X
2. The Create WBS process defines the final outputs as ~~activities~~. *work packages* X
3. Milestones are similar to activities, but they have zero duration. ✓

## Test 27

You are managing a software project. Your QA manager tells you that you need to plan to have her team start their test planning activity so that it finishes just before testing begins. What's the relationship between the test planning activity and the testing activity?

- A. Start-to-start (SS)
- B. Start-to-finish (SF)
- C. Finish-to-finish (FF)
- D. Finish-to-start (FS) ✓

## Test 50

If the optimistic estimate is one, the pessimistic estimate is nine, and the most likely estimate is eight, what is the three point estimate?

- A. 9
- B. 7 ✓
- C. 8
- D. 3

$$\frac{10 + 4 + 10}{6}$$

## Test

Which of the following tools is used for adding buffers to a schedule?

- A. Three-point estimates
- B. Critical path analysis
- C. Expert judgment
- D. Critical chain method ✓



1. Alice is a project manager. She estimates each activity and resource that the team is going to need. Then she adds up all the estimates into "rolled-up" categories. From there she **adds up** the categories into an **overall** budget number. Which tool is Alice using?
- A. Parametric Estimation
- B. Analogous Estimation
- C. Bottom-up estimating ✓
- D. Three-point Estimating

2. Alice is estimating cost for a software project using the **three point estimating** method. If the optimistic estimate is 1,000 dollars, the pessimistic estimate is 9,000 dollars, and the most likely estimate is 2,000 dollars, what is the expected cost under the Beta Distribution?

- A. 2,000 dollars
- B. 3,000 dollars ✓
- C. 4,000 dollars
- D. 5,000 dollars

$$\frac{1000 + 8000 + 9000}{6}$$

Beta Distribution

$$cE = (cO + 4cM + cP) / 6$$

## Test

48

3. Calculations
  - (1) According to the tables below, please calculate the UFC, TCF and FP for this software project.
  - (2) If the productivity of this project is 15 hours/FP, then please calculate the workload of this project.
  - (3) If the cost for each labor hour is ¥100/hour, what is the total cost of this project.

## Test

49

Feature Count items	counts
External input	1 medium
External Output	1 complex
External inquiry	1 simple
External interface file	1 simple, 2 medium
Internal documents	2 simple

Feature Count items	Complexity Weight		
	simple	medium	complex
External input	3	4	6
External Output	4	5	7
External inquiry	3	4	6
External interface file	5	7	10
Internal documents	7	10	15

Technical complexity factors					
F1	Reliable backup and recovery	1	F2	data communication	3
F3	Distributed function	2	F4	performance	2
F5	Large use of configuration	1	F6	On-line data entry	4
F7	Simplicity of operation	1	F8	Online upgrade	2
F9	Complex interface	1	F10	Complex data processing	3
F11	Reusability	4	F12	Installation simplicity	2
F13	Multiple Sites	2	F14	Easy to modify	3

## Software Project Cost Estimating

Technical complexity factors					
F1	Reliable backup and recovery	1	F2	data communication	3
F3	Distributed function	2	F4	performance	2
F5	Large use of configuration	1	F6	On-line data entry	4
F7	Simplicity of operation	1	F8	Online upgrade	2
F9	Complex interface	1	F10	Complex data processing	3
F11	Reusability	4	F12	Installation simplicity	2
F13	Multiple Sites	2	F14	Easy to modify	3

$$\text{sum}(Fi) = 31$$

$$\text{TCF} = 0.65 + 0.01(\text{sum}(Fi)) = 0.65 + 0.01 * 31 = 0.96$$

## Software Project Cost Estimating

50

3. Calculations
  - (1) According to the tables below, please calculate the UFC, TCF and FP for this software project.
  - (2) If the productivity of this project is 15 hours/FP, then please calculate the workload of this project.
  - (3) If the cost for each labor hour is ¥100/hour, what is the total cost of this project.

$$\text{UFC} = 1 * 4 + 1 * 7 + 1 * 3 + 1 * 5 + 2 * 7 + 2 * 7 = 47$$

$$\text{sum}(Fi) = 31$$

$$\text{TCF} = 0.65 + 0.01(\text{sum}(Fi)) = 0.65 + 0.01 * 31 = 0.96$$

$$\text{FP} = \text{UFC} * \text{TCF} = 45.12$$

$$\text{Workload} = 15 * 45.12 = 676.8 \text{ hours}$$

$$\text{Total cost} = 676.8 * 100 = 67680 \text{ ¥}$$

Feature Count items	counts	Complexity weight
External input	1 medium	4
External Output	1 complex	7
External inquiry	1 simple	3
External interface file	1 simple, 2 medium	5, 7, 7
Internal documents	2 simple	7, 7

$$\text{UFC} = 1 * 4 + 1 * 7 + 1 * 3 + 1 * 5 + 2 * 7 + 2 * 7 = 47$$

## Test

Your project has a total budget of \$300,000. You check your records and find that you've spent \$175,000 so far. The team has completed 40% of the project work, but when you check the schedule it says that they should have completed 50% of the work. Calculating the following:

$$\begin{aligned} \text{BAC} &= \$ \underline{\hspace{2cm}} & \text{PV} &= \$ \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \% = \$ \underline{\hspace{2cm}} \\ \text{AC} &= \$ \underline{\hspace{2cm}} & \text{EV} &= \$ \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \% = \$ \underline{\hspace{2cm}} \\ & & \text{SV} &= \$ \underline{\hspace{2cm}} - \$ \underline{\hspace{2cm}} = \$ \underline{\hspace{2cm}} \\ & & \text{CV} &= \$ \underline{\hspace{2cm}} - \$ \underline{\hspace{2cm}} = \$ \underline{\hspace{2cm}} \end{aligned}$$

$$\text{SPI} = \frac{\$ \underline{\hspace{2cm}}}{\$ \underline{\hspace{2cm}}} = \underline{\hspace{2cm}}$$

$$\text{CPI} = \frac{\$ \underline{\hspace{2cm}}}{\$ \underline{\hspace{2cm}}} = \underline{\hspace{2cm}}$$

Your project has a total budget of \$300,000. You check your records and find that you've spent \$175,000 so far. The team has completed 40% of the project work, but when you check the schedule it says that they should have completed 50% of the work. Calculating the following:

$$\begin{aligned} \text{BAC} &= \$ \underline{300000} & \text{PV} &= \$ \text{BAC} \times \underline{50} \% = \$ \underline{150000} \\ \text{AC} &= \$ \underline{175000} & \text{EV} &= \$ \text{BAC} \times \underline{40} \% = \$ \underline{120000} \\ & & \text{SV} &= \$ \text{EV} - \$ \text{PV} = \$ \underline{-30000} \\ & & \text{CV} &= \$ \text{EV} - \$ \text{AC} = \$ \underline{-55000} \end{aligned}$$

$$\text{SPI} = \frac{\$ \text{EV}}{\$ \text{PV}} = \underline{0.8}$$

$$\text{CPI} = \frac{\$ \text{EV}}{\$ \text{AC}} = \underline{0.68}$$

**Cost overrun and schedule over budget**

## Test

It's nine months into your project. The total budget for your project is \$4,200,000. You've spent \$1,650,000 so far, and you've got a CPI of 0.875. Use the Earned Value Technique formulas from forecasting to figure out where things stand.

$$\text{EAC} = \frac{\$ \underline{4200000}}{\underline{0.875}} = \underline{4800000}$$

$$\text{EAC} = \text{BAC} / \text{CPI}$$

$$\text{ETC} = \$ \underline{4800000} - \$ \underline{1650000} = \$ \underline{3150000}$$

$$\text{EAC} = \text{AC} + \text{ETC}$$

$$\text{VAC} = \$ \underline{4200000} - \$ \underline{4800000} = \$ \underline{-600000}$$

$$\text{VAC} = \text{BAC} - \text{EAC}$$

Will the project be over or under budget when it's complete?

**-600000 over budget**



## Test

The applications being built by your programming team have lots of bugs. So, you write up **coding standards** that will **guide** everyone in building the product with more attention to quality.

Prevention ✓

Inspection

You set up **code reviews** at important milestones in your project to catch defects as early as you can.

Prevention

Inspection ✓

## Test

Which of the following tools and techniques is used to show which categories of defects are most common?

- A. Control charts
- B. Pareto charts ✓
- C. Run charts
- D. Flow charts

80/20

Which quality control tool is used to analyze processes by visualizing them graphically?

- A. Checklists
- B. Histograms
- C. Pareto charts
- D. Flowcharts ✓



08

• 正确答案: B. Pareto charts

原因:

▪ **帕累托图 (Pareto Chart)** 基于 **80/20 法则** (即 80% 的问题由 20% 的原因引起), 通过降序条形图展示缺陷类别的频率分布, 直观标识 **最常见缺陷类别**。

▪ 其他选项:

- A. 控制图 (Control Charts): 监控过程是否稳定, 不分析缺陷类别分布。
- C. 运行图 (Run Charts): 跟踪数据随时间的变化趋势, 不聚焦缺陷分类。
- D. 流程图 (Flow Charts): 描述流程步骤, 不统计缺陷频率。

## Test

47

1. You use a Pareto chart to figure out which root causes are responsible for the most defects in the current batch of products. It looks like most of them are coming from a Machine Calibration problem. So you **run them back through the machine after re-calibrating it.**

Perform Quality Control ✓

Perform Quality Assurance

2. You use a histogram to look at the root cause category for all defects that have been found **over the past year.** You find that Machine errors are habitually responsible for the largest number of errors across all batches of products. You schedule Machine calibration checks **at the start of every shift** to be sure that the machine is always set properly.

Perform Quality Control

Perform Quality Assurance ✓

have been 事后

will 事前

## Test

41

Project manager has provided each kind of training for the team members. Team members begin to work together and adjust work habits that support the team. What stage is the project team at?

A. Forming

B. Storming

C. Norming ✓

D. Performing

## Test

53

1) Look Sue, Joe's already filled me in on your issue. I've considered his position, and I've decided that he's right, so I don't need to hear any more about it

A. Withdrawal

B. Smoothing

C. Compromise

D. Force ✓

E. Collaborate



## Test

37

Take a look at this table of

Risk	Probability	Impact
Navigation equipment failure	15%	costs \$300 due to getting lost
Unseasonably warm weather	8%	saves \$500 in excavation costs
Wild animals eat rations	10%	costs \$100 for replacement run

1. Calculate the EMV for each of these three risks

Navigation equipment failure:  $15\% \times (-\$300) = \$-45.00$

Unseasonably warm weather:  $8\% \times \$500 = \$40.00$

Wild animals eat rations:  $10\% \times (-\$100) = \$-10.00$

2. If these are the only risks on the project, calculate the total EMV

Total EMV =  $-\$45.00 + \$40.00 + (-\$10.00) = -\$15.00$

Which risk response technique is being used in these situations?

1. If the weather's good, then there's a chance you could see a meteor shower. If the team gets a photo that wins the meteor photo contest, you can get extra funding. You have your team stay up all night with their telescopes and cameras ready.

Exploit

2. You hear that it's going to rain for the first three days of your trip, so you bring waterproof tents and indoor projects for the team to work on in the meantime.

Mitigate

1. The buyer will pay for the cost of phone service, rent on the facilities, and employees, plus an additional \$2500 per month

Cost Plus Fixed Fee (CPFF)

2. The buyer will pay the seller a total of \$285,000 for 18 months of technical support services

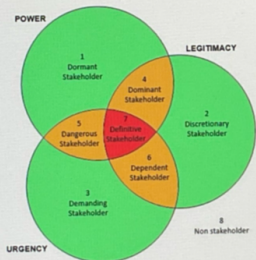
Firm Fixed Price Contracts (FFP)

3. The buyer will pay for the cost of phone service and rent on the facilities, plus \$4,500 per month for employees' time. Costs will not exceed \$14,500 per month

Time and materials

■ Which kind of classification model is used to identify stakeholders based on their power, urgency and legitimacy?

- A、Power/interest
- B、Power/influence grid
- C、Influence/impact grid
- D、Salience model





- You're managing a project with two client sponsors, and you have a 10-person team reporting to you. You've been given a budget increase, which allowed you to increase your team size by 30%. How many lines of communication were **added**?

- A、 66
- B、 78
- C、 120
- D、 42

You 1  
Team 10  
Sponsor 2  
**Total 13**  
**Num of Lines=**  
 **$13 \times 12 / 2 = 78$**



You 1  
Team  $10 + 10 \times 30\% = 13$   
Sponsor 2  
**Total 16**  
**Num of Lines=**  
 **$16 \times 15 / 2 = 120$**