(Note: this document was issued to all candidates prior to the examination as pre-reading material)

The LCIW Project Plan

1.   Introduction

SuperSoft Pte Ltd is a small software house based in Singapore. They have been engaged by the *Lee Consolidated Industries (LCI)* to develop the **LCIW** system, a website and associated e-applications. The LCIW project has recently commenced**.** The proposed system will automate the LCI annual appraisal process. The system will:

- Prompt LCI line managers and supervisors to prepare appraisals of staff reporting to them.

- Capture the appraisals, together with accompanying recommendations for promotion, training, etc.

- Forward appraisals to departmental management and the human resource (HR) department for review.

- Coordinate discussion and agreement between management and the HR department on promotions, salary changes, counseling etc.

- Communicate the results of the appraisals to line managers and supervisors for dissemination.

The project was planned to last six months, and the major activities are given below:

Activity 1:   Initial Planning

Activity 2:   Requirements Definition

Activity 3:   Analysis

Activity 4:   Design

Activity 5:   Code and Unit Testing

Activity 6:   Integration and Systems Testing

Activity 7:   Installation

Activity 8:   Documentation and Training

Activity 9:   Acceptance

2.   Current Project Plan

A project leader (PL), a Lead Programmer (LPR1) and two programmers (PR2 and PR3) have been assigned full time to carry out this project. The PL reports directly to the *SuperSoft* managing director (MD) who is also in overall charge of all projects. Note that:

- The MD oversees all project work but **never** performs any of actual project activities.

- The PL can perform all software development and management tasks.

APPENDIX A

- The LPR1, PR2 and PR3 can perform all software development tasks.

The cost rates for the project staff are:

Staff	Costs per day
Managing Director (MD)	S$2000
Project Leader (PL)	S$1000
Lead Programmer (LPR1)	S$500
Programmers (PR2 and PR3)	S$500

The contract management will be performed by a manager from the LCI contracts department who will handle financial and administrative issues. As potential users (USERS) of the LCIW system, staff members from the HR department will be designated to provide input as required to the *SuperSoft* project team.

The total cost of the project =   S$192,000

Total contingency for project =   S$8,000

The work breakdown structure and effort and duration estimates for activities 1 and 2 of the LCIW project are given below:

		PL	LPR1	PR2	PR3	USERS	MD	TOTAL EFFORT	DURATION
Activity 1:	**Initial Planning**								
Task 1.1	Produce Project Plan	3	1	0	0	0	0	4	3
Task 1.2	Internal Review	1	0	0	0	0	1	2	1
Task 1.3	External Review by LCI*	1	0	0	0	1	1	3	1
Activity 2:	**Requirements Definition**								
Task 2.1	Interview Users	3	3	0	0	3	0	9	3
Task 2.2	Write High Level User Requirement	2	2	0	0	0	0	4	2
Task 2.3	Undertake Use Case Modelling	1	0	3	0	0	0	4	3
Task 2.4	Prototype User Interface with Users	0	2	0	2	2	0	6	2
Task 2.5	Produce Use Case Model Survey	1	0	2	0	0	0	3	2
Task 2.6	Produce User Interface Spec.	1	2	0	2	0	0	5	2
Task 2.7	Compile Together Req. Docs	0	2	2	0	0	0	4	2
Task 2.8	Internal Review	1	1	1	1	0	1	5	1
Task 2.9	External Review by LCI*	1	0	0	0	1	1	3	1
	Total Effort	15	13	8	5	7	4	15	
	Cost rates per day	1000	500	500	500	-	2000	1000	
	Total Costs	15000	6500	4000	2500	-	8000	15000	

Total Labour Costs for Activities 1 and 2:   **S$36000**

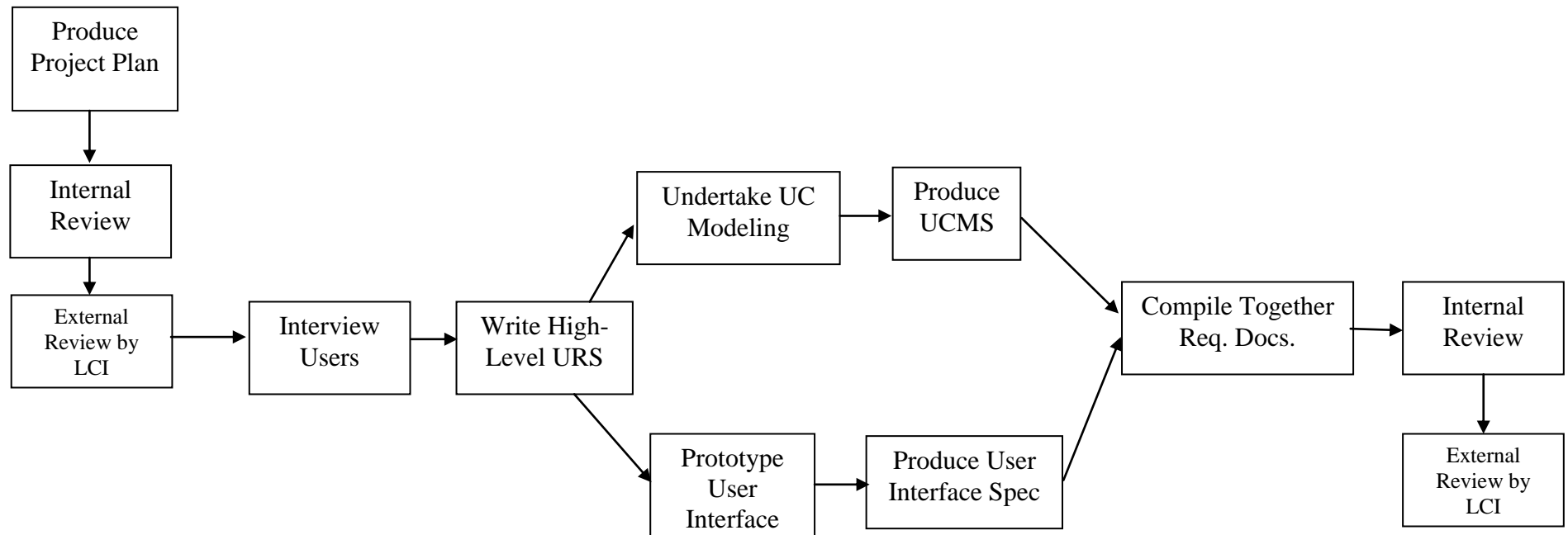Nominal Contingency for Activities 1 and 2:   **S$2000**

Budget for Activities 1 and 2:   **$38,000**

Figures 1and 2 below show the precedence diagram and Gantt chart for activities 1 and 2 of the project. The current plan shows activities 1 and 2 ending on day 25.
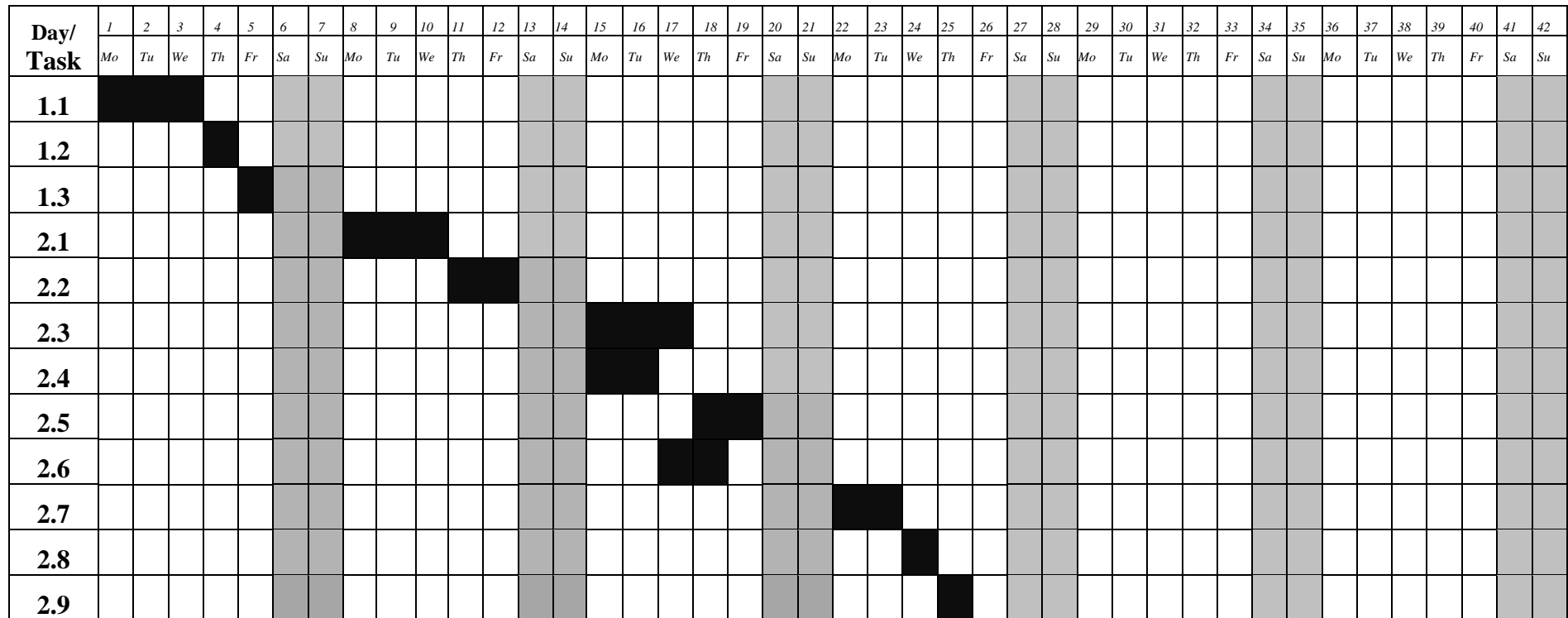
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Figure 1:   Precedence Analysis Chart for Activities 1 and 2 of the LCIW Project

Figure 2: Gantt chart for Activities 1 and 2 of the LCIW Project

Day/ Task	1 Mo	2 Tu	3 We	4 Th	5 Fr	6 Sa	7 Su	8 Mo	9 Tu	10 We	11 Th	12 Fr	13 Sa	14 Su	15 Mo	16 Tu	17 We	18 Th	19 Fr	20 Sa	21 Su	22 Mo	23 Tu	24 We	25 Th	26 Fr	27 Sa	28 Su	29 Mo	30 Tu	31 We	32 Th	33 Fr	34 Sa	35 Su	36 Mo	37 Tu	38 We	39 Th	40 Fr	41 Sa	42 Su
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End of Activities 1 & 2

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