CIS-481: Introduction to Information Security

InfoSec Chapter Exercise #10

Team: 1

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Logistics

A. Get together with other students on your assigned **Team** in person and/or virtually.

B. Discuss and complete this assignment in a collaborative manner. Don't just assign different problems to each teammate as that defeats the purpose of team-based learning and may impact your performance on assessments, especially with respect to the essay questions.

C. Choose a scribe to prepare a final document to submit via Blackboard for grading, changing the names of the two required files to denote the number of your assigned **Team**.

Problem 1 *(10 points)*

Name and describe the four basic conversion strategies discussed in the text that may be used when converting to a new system. Under which circumstances would each be considered the right approach?

The four basic conversion strategies are direct changeover, Phased implementation, Pilot implementation, and Parallel operations. A direct changeover is in when the old system is stoped then beginning the new system this is good for simple changes such as basic procedure changes. Phased implementation is the most common and is when the new system is implemented piece by piece this is useful for more complex systems that need will likely involve troubleshooting. Troubleshooting will be easier to do on a parallel implementation because you are only focusing on implementing the current phase and not the whole project. Pilot implementation is when the system is used by a single part of the company first before being used in the rest of the company. The first part of the company is used as a "guinea pig" and can test the system to find any problems are issues before company-wide implementation. This can be good for a brand new system that still has a lot of issues with it. Parallel operation is when both new and old systems are run at the same time, this is so that if the new systems fail the systems can just fail back to the old system with minimal downtime. The issue here is the cost of running both systems. This would be good for a system that needs to avoid downtime as much as possible. For example, on an amazon.com website server, every minute amazon is down millions of dollars are lost this strategy would be good because if the new system implementation failed they could just switch back to the old system.

Problem 2 *(15 points)*

Complete Exercise 1 from p. 576 of your text. Model your WBS on Table 10-1 from p. 541 of the text. Assume that work on the sample project may begin as early as next Monday. You should create a worksheet using Microsoft Excel to support your analysis, then paste an image of the table with column headings and rows just below. Be sure to attach the Excel workbook file when submitting your solution document for grading.

Date for project to start: 11/8 (keep with the scenario)

Purchasing Filter Hardware Appliance:
Cost: $18,000

Installing time for filter: 150 hours

Technical Support:
Cost: $3,240 (18%) of the purchase price
+ (two different tasks
Conduct Training allowance for the filter
Time: one year

Purchase software component:
Cost: $550

Implement Monthly subscription to block sites
Cost: 250 per month

Needing Adminstrative functions needed:
Four hours per week

	Task or Subtask	Resources	Start and End Dates	Estimated Effort in Hours	Estimated Capital Expense	Estimated Non-capital Expense	Dependencies
1	Purchase Network Filter				$0	$0	
1.1	Order filter through purchasing group	Network Admin	11/8-11/8	2	$0	$0	
1.2	Order filter from vendor	Purchasing Admin	11/9-11/9	2	$18,000	$0	1.1
2	Purchase Software Component					$0	
2.1	Order software through purchasing group	Network Admin	11/8-11/8	2	$0	$0	
2.2	Order software from vendor	Purchasing Admin	11/9-11/9	2	$550	$0	2.1
3	Software key delivered	Network Admin	11/11-11/11		$0	$0	2
4	Filter is delivered	Network Admin	11/15-11/15		$0	$0	1
5	Filter Setup					$0	4
5.1	Install Filter	Network Admin	11/16-12/9	150	$240	$0	
5.2	Train Employees on Filter	Network Admin	12/10/21-12/10/22	1 year	$3,000	$0	
6	Software Setup					$0	5, 3
6.1	Implement Monthly Subscription	Network Admin	12/10-Indefinite	4/week	$250/month	$0	
6.2	Other Admin Functions	Network Admin	12/10-Indefinite	4/week	$0	$0	