CIS-481: Introduction to Information Security

InfoSec Chapter Exercise #10

Team: 6
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Logistics

A. Get together with other students on your assigned team in person and 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.
C. Choose a scribe to prepare a final document to submit via Blackboard for grading, changing the file name provided 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?
Direct Changeover. This is basically totally ending on method of doing something and starting a new method. There is no phased implementation of the new method. This is sometimes called going "cold turkey". One example could be implementing new password policies that require more complicated entrees.

Phased Implementation. This method stands in contrast with Direct Changeover. Phased implementation does not happen all at once, rather, it is implemented over a period of time. This is appropriate for complicated fixes or procedures that need to be tested and ironed out before implementing to all staff. This can start by using a small test group or by using only one department first and then phasing it to other departments.

Parallel Implementation. This is where two systems run at the same time. This is a much more complex approach. This could add more security as it would require each system to fail or be compromised. Due to the more complex nature, it also require more work and planning to successfully implement and maintain.

Pilot Implementation. Similar in nature to phased implementation, this uses a "pilot" or test group. The system is used by that group until all issues are resolved and then spreads the improvements to the rest of the company.

Problem 2 *(15 points)*
Complete Exercise 1 from p. 576 of the text. Model your WBS on Table 10-1 from p. 541 of the text. Assume that work on the project may begin as early as next Monday.

Task or Subtask number	Task or Subtask	Resources	Start (S) and End (E) Dates	Estimated Effort in Hours	Estimated Capital Expense	Estimated Noncapital Expense	Dependencies
1	Contact field office and confirm network assumptions	Network architect	S: 3/29 E: 3/29	2	$0	$200.00	
2	Purchase filter hardware						
2.1	Order filter through purchasing group	Network architect	S: 3/30 E: 3/30	1	$0	$100.00	1
2.2	Order filter from manufacturer	Purchasing group	S: 3/31 E: 3/31	2	$18,000	$100.00	2.1
2.3	Filter delivered	Purchasing group	E: 4/7	1	$0	$50.00	2.2
3	Purchase filter software						
3.1	Pay for technical support	Purchasing group	S: 4/7 E: 4/7	1	$3,240.00	$100.00	1
3.2	Purchase software to administer filter	Purchasing group	S: 4/7 E: 4/7	1	$550.00	$100.00	1
3.3	Set up subscription to blacklist resource website	Purchasing group	S: 4/7 E: 4/7	1	$0.00	$100.00	1
3.3.1	Pay first month's blacklist website's fee	Purchasing group	S: 4/7 E: 4/7	1	$250.00	$0.00	3.3
4	Configure filter	Network architect	S: 4/7 E: 4/12	8	$0	$800.00	2.3
5	Package and ship filter to office	Student intern	S: 4/13 E: 4/22	2	$0	$85.00	4
6	Work with technical resource to install and test	Network architect	S: 4/29 E: 5/14	3	$0	$200.00	5
7	Administer Filter	Administrator	S: 5/14 E: 5/14	2	$0.00	$100.00	6