

Name

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ID

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7716

Section

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"C"

Semester

#

8th

Qno 1:

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Given DATA:

Number of Communication channels = 6

Additional Stake holders = 2

Required Data:

Identify the number of communication channels after increasing the scope of work = ?

Solution:

As we know that

Number of communication channel = $\frac{n(n-1)}{2}$

The number of people involved in

Six Communication channels

$$6 = \frac{n(n-1)}{2}$$

$$12 = n(n-1) = n^2 - n$$

$$n^2 - n - 12 = 0$$

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$$n^2 - 4n + 3n - 12 = 0$$

$$n(n-4) + 3(n-4) = 0$$

$$(n-4)(n+3) = 0$$

$$(n-4) = 0$$

$$n = 4$$

$$n+3 = 0$$

$$n = -3$$

The Number of people involved

$$n_s = 4$$

There is additional stake holders

So the total number of people

are \Rightarrow

$$n = 4 + 2$$

$$\boxed{n = 6}$$

Now the required communication

$$\text{channel} = \frac{6(6-1)}{2} = \frac{30}{2}$$

New communication channel = $\boxed{15}$ Ans.

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Qno 3:

Given DATA:

Initial Investment = 9000 \$
 $C_1 = 2000$, $C_2 = 3000$, $C_3 = 3000$, $C_4 = 4000$

NPV = ?

Solution:

So

$$NPV = -C_0 + \frac{C_1}{1+r} + \frac{C_2}{(1+r)^2} + \frac{C_3}{(1+r)^3} + \frac{C_4}{(1+r)^4}$$

$$P_{V_0} = 9000 \$$$

$$P_{V_1} = \frac{C_1}{1+r} = \left(\frac{2000}{1 + \frac{10}{100}} \right)$$

$$P_{V_1} = 1818.18$$

4

$$PV_2 = \frac{C_2}{(1+r)^2} = \frac{3000}{\left(1 + \frac{10}{100}\right)^2}$$

$$PV_2 = 2479.34$$

$$PV_3 = \frac{C_3}{(1+r)^3} = \frac{3000}{\left(1 + \frac{10}{100}\right)^3}$$

$$PV_3 = 2253.94$$

$$PV_4 = \frac{C_4}{(1+r)^4} = \frac{4000}{(1+r)^4} = \frac{4000}{\left(1 + \frac{10}{100}\right)^4}$$

$$PV_4 = 2732.05$$

$$NPV = -C_0 + \frac{C_1}{1+r} + \frac{C_2}{(1+r)^2} + \frac{C_3}{(1+r)^3} + \frac{C_4}{(1+r)^4}$$

$$NPV = -9000 + 1818.18 + 2479.34 + 2253.94$$

$$NPV = 283.51 \$ \text{ Ans}$$

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Q no 4:

Being a project Manager, how would you identify the stakeholders by power/interest Matrix?

Ans:

The Power / Interest Matrix:

To indicate the nature of the relationship which should be adopted with each group.

| | | Level of Interest | |
|-------|------|---------------------|--------------------|
| | | Low | High |
| Power | Low | A Minimal effort | B keep informed |
| | High | C keep satisfied | D Key players |

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Stakeholders in group A:

Need only minimum effort and monitoring.

Stakeholders in group B:

Should be kept informed as they may be able to influence more powerful stakeholder.

Stakeholder in group C:

Are powerful but level of interest is low.

Generally expected to be passive but may move into group D on an issue of particular interest.

Stakeholder in group D:

Are both powerful and interested. Their co-operation is of key importance for new strategies.

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Ans:

## CHECKLIST FOR RISK

### MANAGEMENT:

#### \* Stage 1:

##### Initiation:-

- Assemble Risk Management resources.
- Appoint the team leader and ensure a breadth of skills/experience within the team.
- Assign Risk Management responsibilities appropriate to task.

#### \* Stage 2:

##### Proposal Familiarization

- Specify objectives and criteria.

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- familiarise the team with the proposal. Assemble documentation and define the key objectives.
- Assess the proposal in relation to the Agency's objectives and strategies.
- Determine assessment criteria for proposal.
- Define key elements to structure risk elements.

Stage #3

## Risk Analysis

- (i) Identify risks.
  - Prepare a comprehensive schedule of risk for each element.
  - Describe the each risk and list the main assumptions.
- (ii) Assess risk likelihoods and consequences.

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- Assemble data on risk and their consequences,
- Assess risk likelihoods.
- Assess risk impacts

(iii) Identify significant risks

- Rank risks to reflect impacts and likelihoods.
- Where applicable, estimate risk factors.
- Discard / accept minor risks.
- Identify moderate risks for management measures.

(iv) Identify major risks for detailed risk action planning.

## Question 2:

Answer :

| Work package | BCWS               | ACWP             | Progress | BCWP              | (CV)           | CPI   | SPI   | SV             |
|--------------|--------------------|------------------|----------|-------------------|----------------|-------|-------|----------------|
|              | Planned value (PV) | Actual cost (AC) | %        | Earned value (EV) | EV-AC          | EV/AC | EV/PV | EV-PV          |
| 1            | \$ 100,000.00      | \$ 120,000.00    | 100%     | \$100,000.00      | \$ (20,000.00) | 0.83  | 1.00  | \$ -           |
| 2            | \$ 100,000.00      | \$ 110,000.00    | 100%     | \$100,000.00      | \$ (10,000.00) | 0.91  | 1.00  | \$ -           |
| 3            | \$ 100,000.00      | \$ 80,000.00     | 90%      | \$ 90,000.00      | \$ 10,000.00   | 1.13  | 0.90  | \$ (10,000.00) |
| 4            | \$ 100,000.00      | \$ 125,000.00    | 80%      | \$ 80,000.00      | \$ (45,000.00) | 0.64  | 0.80  | \$ (20,000.00) |
| 5            | \$ 100,000.00      | \$ 75,000.00     | 50%      | \$ 50,000.00      | \$ (25,000.00) | 0.67  | 0.50  | \$ (50,000.00) |
| 6            | \$ 100,000.00      | \$ -             | 0%       | \$ -              | \$ -           | 0.00  | 0.00  | \$(100,000.00) |
| 7            | \$ 100,000.00      | \$ -             | 0%       | \$ -              | \$ -           | 0.00  | 0.00  | \$(100,000.00) |
| 8            | \$ 100,000.00      | \$ -             | 0%       | \$ -              | \$ -           | 0.00  | 0.00  | \$(100,000.00) |
| 9            | \$ 100,000.00      | \$ -             | 0%       | \$ -              | \$ -           | 0.00  | 0.00  | \$(100,000.00) |
| 10           | \$ 100,000.00      | \$ -             | 0%       | \$ -              | \$ -           | 0.00  | 0.00  | \$(100,000.00) |
| BAC          |                    |                  |          |                   |                |       |       |                |

**Comment: The Project is over schedule and Over budget.**