Professional Practices

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Task 01

Answer:

As we understand by the above scenario, we must find out the reason for the loss of production as well as the revenue due to time delaying in product delivery. So, an organization must hire that person who just overcomes it and makes more productivity to generate more revenue as per organization need and requirement on the behalf of market rates and standards.

An organization hire a person who must have:

1)A sound knowledge of the market where the market lay for the product and its market value too.

2)A manager must follow the ethical code of conduct to make productivity.

3)Also, check and balance the leading activities that why the organization is facing that loss and nonproductive environment issues in regards to the year.

4)Also, check the quality of whether the quality of product lies and if it's compromises then must follow the organization policies to overcome that quality issue if it resides behind the loss in productivity and non-generation of revenue.

5)Then it must take steps to improve the performance of the employees that he leads and also inquire which issues may arise with the staff and how to solve them.

6)Also they manage the healthy environment so that employees pay full heed to work and give them a good product in a settled timeline.

7)To make assure the clients that the organization must gives the product to them in regarding period even no compromises on the deadline and deliver the product on time,

8)By providing the qualified product on given time is the key to success for the organization and if managers do the precautionary measures to assure the quality with time quantity with respect to clients requirement then the organization must overcome the loss in a bit time period.

It all depends upon the professional lead and manager to sort out such type of negligence.

Task 02

Answer:

In order to read the above scenario, it clearly stated that organizations pay heed to the carrying activities which must be reliable and smoothly running on time so that they just put the quality product within time span.

A team lead makes assurances to the organization for all the activities going on will work in a smooth and respective way. So, A good lead and manager is responsible for the carrying activities and also checks on records through which the team must ensure them their full interest in the work. Manager must follow the organization policies and standards as well as IEEE standards to make the project phases like planning till execution to make the product according to the clients requirements.

 If the lead presents the roadmap of activities to the team and regarding members like project stakeholders as well as project team then I think all activities must go toward good work.

I emphases on the team and their lead from higher to lower management because the project or product upon the planning so that execution will be on time in respective budget and being qualify for the client's requirements,

The project manager must work with the user to provide quantifiable definitions to those qualitative terms. These quantifiable criteria include schedule, cost, and quality measures. In

the case of project objectives, these elements are used as measurements to determine project satisfaction and successful completion. Subjective evaluations are replaced by actual numeric attributes.

Well due to planning phase project leads already decides every type of estimation in this phase by the judgement and the team workers so that the project or product must be deliver on time.

Task 03

Answer:

Task 04

ANSWER:

Engineering is an important and learned profession. Engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.

Usually the professional and personal responsibility is represented in a code of ethics which are covered under professional competencies in that organization.

The codes of ethics also mention the personal values that an engineer should have. They are

- Integrity and honesty
- Impartiality, fairness, and equity

- o Impartiality is a principle of justice holding that decisions should be based on objective criteria, rather than on the basis of bias, prejudice, or preferring the benefit to one person over another for improper reasons.
  - o Fairness is defined as the quality of having an unbiased disposition
  - o Equity is the quality of being fair and impartial
- Trustworthiness
- Confidentiality – of certain information belonging to their employer or client
- Privacy – important in cyberspace because of the number of personal records are stored on and transferred among computers, where the engineers have access and control
- Ethics in Research and Experimentation
- Conduct oneself honorably, responsibly, ethically, and lawfully
- The professional qualities that the code of ethics mandates.
- Competence – the ability to do something successfully or efficiently
- Provide service in their areas of competence only, being honest and forthright about any limitations of their experience and education
- Strive for high quality, acceptable cost and a reasonable schedule
- Accept full responsibility for their own work
- Disclose to appropriate persons or authorities any actual or potential danger
- Cooperate in efforts to address matters of grave public concern etc.
- Shall strive for professional development

As an engineer, you must be able to identify, assess and analyze complex problems. You must make quick decisions when handling urgent situations. You must be able to offer and implement solutions to address a problem.

Engineers ought to be leaders and managers. Engineers are given different responsibilities depending on the project but sometimes they are assigned to lead and handle a team.