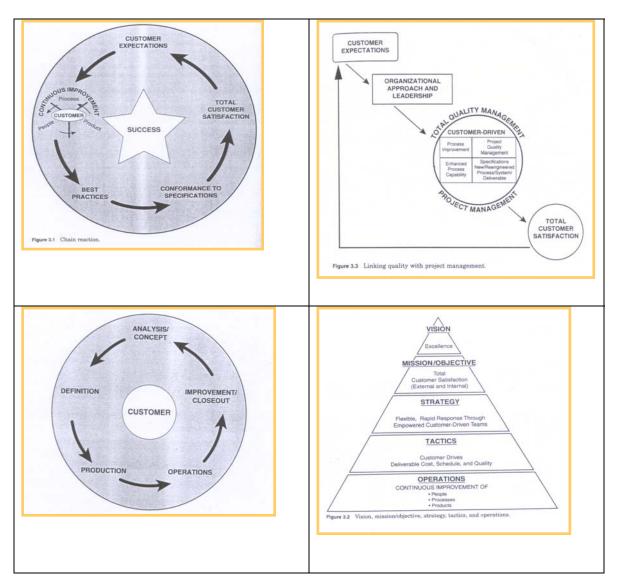
King Fahd University of Petroleum & Minerals

CEM 515 Construction Quality AssurancesMidterm exam

Name:	St NO	
CHAPTER 3: P	OJECT MANAGEMENT AND QUALITY	
-	ent organizations seek to define the rathe	er
isolation from	g This frequently results in an he customer, with the ultimate consequence of leaving the deliverator for the customer. Such organizations do not keep close to their	ıble
people involve	the total quality management emphasis on	
3	is a management approach that focuse eliverables that achieve total customer satisfaction.	es
4. In many of	oday's organizations, and are separated. This restrains the organization's ab	ility
to achieve tota	customer satisfaction.	• 5
5. Projects inc	ade three kinds of planned, short-term activities:	
✓ The	se producing	
✓ The ✓ The	se producing, and se resulting	

6. Name the following figures/graphs



7. Customer-driven project management stresses:

- Right-sized and team-based organizations, and
- _

8. The new millennium has introduced a new stage in the development of project management-we call it ""
9. Project management became necessary because traditional organizations structured around functional activities, such as <i>engineering</i> , <i>manufacturing</i> , <i>support</i> , <i>finance</i> , and human resources, could projects.
10. According to project management standards, a successful project is one that is completed on and within and meets criteria.
11 means the customer or customer's voice is the primary focus.
12 is any series of activities that has a specific end or objective.
13 involves optimizing resources, that is, getting the most out of both technology and people.
14. The customer-driven project management life cycle includes:
- Concept
15. The CDPM improvement methodology consists of the following eight steps:
1 Define quality issues.2
 3 Select improvement opportunities. 4
• 5 Take action.
 6
16. CDPM is a process that is wholly driven by the at every turn and which places the customer in from start to finish

CHAPTER 5:Leadership and Quality

The total quality management environment must include the entire organization and be shared by everyone in the organization.

- The creation of a VICTORY environment requires the following elements:
 - Vision and the leadership to make it happen
 - Involvement of everyone and everything
 - Continuous improvement system
 - Training and education
 - Ownership
 - Rewards and recognition
 - Years of support and commitment

The *mission* describes the basic corporate view of the role and function of the organization in satisfying customers' expectations today and in the future

Mission should be stated clearly in documents that every employee can use as the "anchor" for his or her performance

The development of a mission statement starts at the top

Values include the principles the organization believes and follows.

• Values are the collective concept of what is important and what is "right" about the organization.

Specifically leaders do the following:

- Leaders create synergy
- Leaders create vision
- Leaders give structure
- Leaders set the example
- Leaders grow other leaders
- Leaders establish and maintain organizational systems



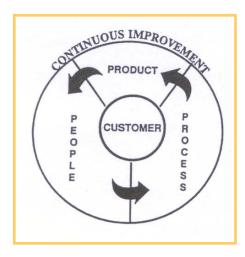
In a TQM environment, people are the most important resource

All the people in the organization must be empowered to perform their work with excellence.

- People must be encouraged to be creative and innovative within all areas of their work.
- The continuous improvement system applies all the fundamental aspects of the TQM definition.

Continuous Improvement

- People are not the problem, people are the solution.
- Quantitative methods are the principal means to make decisions.
- An appropriate improvement methodology is used to improve all material services supplied to an organization

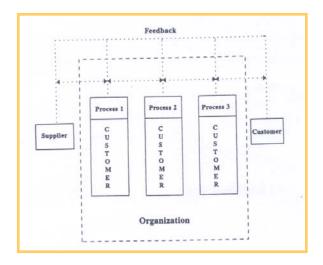


Training and Education

- Specifically, the key skills that must be developed for a TQM environment include:
 - Communication, especially listening;
 - Teamwork;
 - Conflict management;
 - Problem solving;
 - Consensus decision making;
 - Critical and systems thinking;
 - Understanding customer needs; and
 - Process improvement.

Ownership comprises the ability to perform and improve work.

- Empowerment is the process of enabling employees at all levels to exercise wide discretion in meeting customer needs, both within the outside the organization.
- Control is the process of setting boundaries on that discretion, through guidelines, so that employees are clear on the extent of empowerment.
- Rewards can be extrinsic, such as compensation, promotion, and benefits,
- Rewards can be intrinsic, such as feeling of accomplishment, improved selfesteem,, 1personal growth, or a sense of belonging



Elements that must be observed in order to achieve total customer satisfaction:

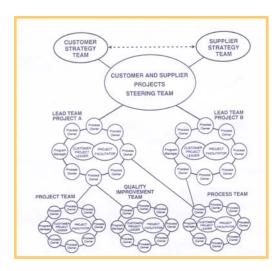
- Know your organization
- Know your product
- Know your competition
- Know your customers

Project management system involves the following major processes:

- 1. Analysis
- 2. Planning
- 3. Implementation
- 4. Evaluation

The CDPM framework in its most complex form includes the following essential teams:

- Customer and supplier strategy teams
- Customer and supplier project steering teams
- Customer-driven project lead teams
- Customer-driven teams



Chapter 6: THE EIGHT STEP PROCESS

- ◆ The eight phases of the customer-driven project management improvement methodology are:
 - → Phase 1: Define the quality issue
 - → Phase 2: Understand and define the process
 - → Phase 3: Select improvement opportunities
 - → Phase 4: Analyze the improvement opportunities
 - → Phase 5: Take action
 - → Phase 6: Check results
 - → Phase 7: Implement the improvement
 - → Phase 8: Monitor results

Phase 1: Define the quality issue

- Input: draft mission statement from the customer and supplier project steering team.
- Process: the input is used in the process to
 - ✓ Establish the project mission
 - ✓ Form the customer-driven project lead team
 - ✓ Define the project deliverable
- Output: the output of this process is a project mission statement with a specific project deliverable definition

Phase 4: Analyze the improvement

opportunities

- ❖ Input: the input is the selected improvement opportunities
- Process: the process involves

- Process analysis
- ◆ Cause-and-effect analysis
- ◆ Data statistical analysis
- Output: the output of this process is project(s) objectives

Phase 7: Implement the improvement

- Input: the input is the project deliverable or improvement.
- Process: the process in this phase involves
 - Planning and gaining approval
 - Instituting the project deliverable and/or improvement
 - Project operation and support.
- Output: the output of this process is a project deliverable that continually satisfies the customer

Phase 8: Monitor results for continuous improvement

☐ Input: operational project deliverable or improvement

☐ Process: the process involves

☐ Evaluating project performances metrics

☐ Assessing the project processes

☐ Seeking continuous improvement of the project deliverable and project processes

☐ Output: the output of this process is a successful project.

Chapter 7

Complete the missing words (1 point each)

1) Customer-driven teams are the primary project management. Customer-driven te	y technique for performing customer-driven ams are as follows:
	. These are customer-driven ete a specific project, program, or task.
Customer-driven focus on improving a specific pro	. These customer-driven teams cess.
Customer-driven perform and improve their particu	These customer-driven teams constantly lar process.

2)	is the involvement of each person in the organization in
the work itself and	in improvement of the work.
3)	are a group of people working together toward a
common gour.	
4)together to achieve	is a technique where the individual team members work a common goal.
5)	is a technique for exchanging information.
6)understanding info	is a communication technique for receiving and rmation.
7)	is a technique to establish a focus on a specific outcome.
8)common goal.	is a tool for bringing a group together to work for a
9) of a group to create	is a tool that encourages the collective thinking power ideas.
10)requesting action.	is a tool for providing information, gaining approval, or
	is a disciplined approach for listening to the voice of the tomer requirements that are converted into deliverable conditions.
12) of recognized leade	is a method of measuring your organization against those
13)improvement action	are meaningful measures that target continuous process
14)	are tools for defining the process.
15)problems between t	is a technique for identifying interdependency the input and the output of the process.
information to conv	is a technique for obtaining and exchanging vey your needs and requirements to suppliers and to mutually s and expectations of your customers.
17)	is a technique to determine majority opinion.

18)	_ is a tool for rating problems, opportunities, or alternatives
based on specific criteria.	
19)	is a tool for comparing each problem, opportunity, or
alternative against all other	rs.
	is a technique for getting a team to accept and support
a decision.	
21) i time by eliminating non-va	s a tool to improve the process and reduce process cycle alue-added activities and/or simplifying the process.
22)	is a tool that shows a picture of how work actually
flows through an organizat	tion or facility.
23)	_ is a technique for helping a group examine underlying
causes.	
24)	is actually several tools for collecting, sorting, charting,
and analyzing data.	
25)	is a technique that describes the forces at work in a given
situation.	
26)	. The work breakdown structure defines the
organization and coding of	the deliverable.
27)	_ is a technique for planning, scheduling, and controlling
	eting, and controlling resources.
	is the continual assessment of threat or opportunity in
terms of time, cost, technic	cal feasibility, and customer satisfaction.
29) app	broach includes several techniques for reducing variations brmance to minimize loss.
in product or process perfo	rmance to minimize loss.
30)	are techniques to identify cost of conformance and
nonconformance.	