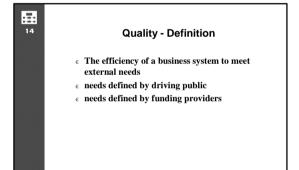


14

Instructional Objectives

- ε Identify the fundamental principles of Total Quality
- Become familiar with the application of Quality Management



14

- € Commitment of top management
- \in Belief in management commitment
- e Leadership
- ε Unending, intense focus on satisfying customer
 ε Decision-making based on data, measurement, statistical inference

General Principles

General Principles

- $\ensuremath{\epsilon}$ Process control equals variation reduction
- € Continuous improvement

14

- $\varepsilon~$ Process improvement vs. production inspection
- e Prevention vs. fixing problems
- $\ensuremath{\epsilon}$ Collaboration in organization

14

General Principles of Total Quality

- $\in \ \ \ Cross-functional\ teamwork$
- $\ensuremath{\, \ensuremath{\, \ensuremath{\ \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\, \ensuremath{\,\$
- $\ensuremath{\, \ensuremath{ \e$
- $\varepsilon~$ Management focus on long-term results

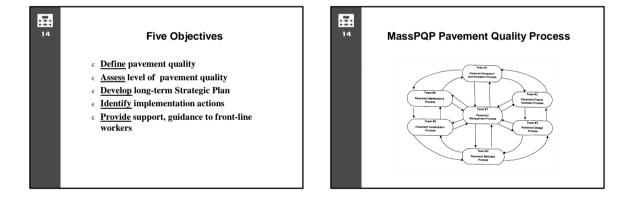


 A joint public/private effort to achieve quality pavements through the application of TQM principles and partnering methods



Reason for MassPQP

- Realization that pavement quality was deteriorating
- ∈ Lack of expertise within design and construction community
- € Interest in NQI
- € Desire to institutionalize PMS

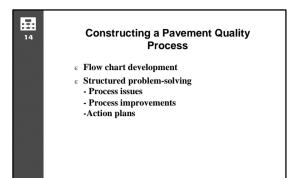






- ϵ Criteria <u>what</u> should be measured
- $\varepsilon~$ Tools \underline{how} best to collect and analyze data
- $\varepsilon~$ Target Levels <u>where</u> performance level is expected
- € Frequency <u>when</u> criteria should be measured
- $~ \varepsilon ~$ Responsibility <u>who</u> should measure criteria

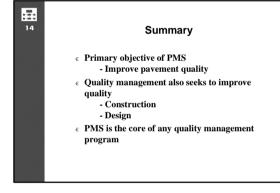
14



14

Pavement Management Process Improvement

- $\varepsilon~$ Expand and improve PMS database
- $\ensuremath{\, \ensuremath{ \e$
- ϵ Incorporate all branches of pavement design
- $\varepsilon~$ Train district personnel in PMS process



Instructional Objectives

14

- $\varepsilon~$ Identify the fundamental principles of Total Quality
- Become familiar with the application of Quality Management