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IN	PLEMENTATION OF QUALITY
ASSU	RANCE IN THE DESIGN PROCESS
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EMGT 520

OUTLINE OF PRESENTATION

- **v** What is Quality?
- v Quality Programs
- v Quality Issues
- v Methodology
- v Qualitative Analysis
- v Quantitative Analysis
- v Summary

What is Quality ?

"Quality is all the characteristics of a product or service which the user specifies or implies and which the user will readily accept at a price he or she is willing to pay"



v ISO 9000

- v Total Quality Management (TQM)
- v Malcolm Baldrige Award
- v Quality Function Deployment (QFD)

QUALITY ISSUES

- v Customer Satisfaction
- **v** Design Error
- v Schedule Requirements
- **v** Design and Construction Cost Overruns
- v Document Control
- v Staff Morale and Turnover

METHODOLOGY

- v Survey Questionnaire
- v Medium to Large Size Co.'s. (25-250+)
- **v** Rating From None to Very High
- v Conversion to Numerical Scale
- v Tangible and Intangible Results
- **v Results: Quantitative & Qualitative**

QUALITATIVE ANALYSIS

- **v** QA Program In Place at 91% of Firms Surveyed
- v Skepticism Additional Work
- **v** Acknowledgment Extremely Critical for Operation
- ν Reason for Not Implementing COST
- **v** Measurement Techniques:
 - No Formal Techniques
 - Defects per Drawing
 - Contractor Change Orders
 - Formal Customer Surveys Feedback Loop

QUANTITATIVE ANALYSIS

- v QA Programs in Use
- v Survey Scale
- v Important Quality Issues
- v QA Program: Effects on Issues
- **v QA Program: Implementation and Acceptance**

QUANTITATIVE ANALYSIS Contd.

- v QA Program Success
- v QA Training
- v Client Questionnaires
- ν $\,$ Firm Size and Years in Business

