

Productivity Techniques

Session Details

Session	Topics to be covered
1, 2	Concept of productivity, -application in manufacturing and service industries, application in different functional areas. The Toyota Way- Case study Film on Toyota
3, 4	Measurements of Productivity-partial, Multifactor, and Total Factor Models, Sumanth's Total Productivity Model, Sink's Multifactor Model, Productivity by Objective, American Productivity Centre Models Approach to productivity improvement-classic ILO approach, Modern TQM approach, Sumanth's 5 pronged approach- Product based, technology based, people based, material based, and task based techniques
5, 6	Introduction to TQM concepts and relevance in competitive environment. Various dimensions of quality. The Deming Management at Work Quality Circles, -Relationship with total quality management, objectives,
7, 8	Seven tools, fishbone diagram, Pareto Analysis, Scatter diagrams, checklists, control charts, etc, use in solving chronic problems, Organizing for Quality Circles, Structure, method of implementation of Quality Circles. Lean Manufacturing and JIT/Gemba Kaizen
9, 10	Creativity Based Techniques, Brain Storming, Whole Brain Thinking, Nominal Group Techniques, use in creative problem solving with practical applications. Kepner Tregoe methodology of problem solving Value Analysis, and Value Engineering

Text Books :

1) Productivity Techniques By Dr. Srinivas Gondhalekar and Dr. Uday Salunkhe

Other Readings

- 1) The Toyota Way –Dr. Liker
- 2) Managing Productivity-Robert Schaffer