

Placement Exam

MBA 612- Manufacturing and Service Systems



MBA 612 Exam Details:

30 multiple choice and 2 short answers
Open book
Calculator Permitted
Time Limit: 3 hours
Passing score= 70%
Text: Operations Management by Heizer, J. & Render, B. – Prentice Hall 6th Edition

MBA 612 Exam Content:

Exam takers should focus on the following content:

- Linear programming applications to Operations Management
 - Modeling OM problems as linear programs
 - Solving problems using the graphical method
- Queueing systems applications
 - Single server results
 - Little's Law calculations
- Forecasting
 - Exponential smoothing
 - Regression
 - Measures of forecast accuracy
- Aggregate Planning
 - Problem definition
 - Modeling
- Inventory Management
 - Reorder point
 - Order quantity and total cost models
 - Safety Stock
 - Service level calculations
- Project Planning and Scheduling
 - PERT
 - CPM calculations
- Production Scheduling
 - Dispatching rules
 - Theory of Constraints
 - Finite scheduling
- Statistical Quality Control Methods
 - Analysis of acceptance sampling plans
 - Statistical process control calculations
- Quality Management
 - ISO 9000

- TQM methods and tools
- MRP/ERP Systems Design and Operation
 - Inputs
 - Outputs of MRP
 - Explosion Process
- Assembly Line and Facility Layout
 - Line balancing methods
 - Facility layout modeling approaches