

ABOUT cumulative EXAM

PRODUCTION and
OPERATIONS MANAGEMENT

As you remember of OBJECTIVES?

The competence we strive for by this first Operations Management course is that students get familiarized with production/manufacturing and controlling systems, they are able to work in production planning operative tasks, and know the basics of analyzing and developing production systems.

This course is merely an introduction to operations development and management skills, and therefore one of the main focuses is in terminology, basic goals and reasons of different issues and means of control.

Levels of competence

And from understanding to creative applying



Understanding – managerial – level:
How complex manufacturing system works as part of entity?
Understanding the relationships between manufacturing and other processes. Understanding the human side of production .

Developing – specialist - level:
Capability to analyze, develop and design production systems.

Coping – daily operations - level:
Capability to work in production planning and controlling jobs in factories.

The focus of Operations Management course

Look on next page:

Good to know – general knowledge of OM /
Production

Important to know - Specific knowledge for
planning and implementing OM tasks

CONTENT

1. Introduction to Production Control (good to know)
 - History and perspective of industrial engineering (good to know)
 - Industrial and systems engineering (good to know)
 - Manufacturing engineering (good to know)
 - Operations Management in Corporate Profitability and Competitiveness / operations as a competitive weapon (good to know)
 - Types and Characteristics of Manufacturing Systems / Operations strategy (very important)
 - Types and Characteristics of Service systems / Process management (good to know)
 - Product/Process Design, Technological Choice and Assembly Line Balancing
2. Capacity and aggregate planning, forecasting (important to know)
3. Capacity Requirements Planning, MRP, MRP II, OPT , ERP (good to know)
4. Operations Scheduling (important to implement)
5. Japanese Manufacturing Systems, JIT (important to know) TQM, LEAN, MASS CUSTOMIZING (good to know)
6. Project Management, Large-Scale Projects, Critical Path (important to know)
7. Systematic Layout Planning, Facility Layout (important to know)
8. Work Design and Work Measurement (will be important to learn well in the future)
9. Simulation (good to know)

In exam answer to all 4 questions on a given paper.

Bring with a calculator (1-2 problems need a bit of math's – calculator is not obligatory, but might make your being easier) ,

and bring a sharp pen and eraser

and good humor 😊