



OPERATIONS MANAGEMENT TEAM:

A SCIENTIFIC APPROACH TO PRACTICAL SOLUTIONS



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NEW CHALLENGES IN THE PHARMA INDUSTRY

The Pharmaceutical industry is under unprecedented pressure to deliver innovative health benefits at affordable costs



All these factors decrease margins and make pressure on pharma industry profitability



How to Face Issues

- Operational Excellence concerns a set of methods and techniques, whose objective is the continuous improvement of performances towards excellence
- Achieving Operational Excellence is based on the analysis of technical and economic opportunities for improvement and the processes optimization and streamlining
- Operational Excellence projects aim to:
 - Reduction of non-value-added activities and wastes
 - > Optimization of accessibility and resource exploitation
 - Improvement due to use of effective information systems
 - > Reduction of delays, errors, misunderstandings, and waiting for resources
 - Opportunity for new technologies adoption





Focus and Improvement opportunities



- High costs of raw materials
- Voluminous conditioning materials and limited spaces
- Waiting times required for analysis of raw materials
- Materials/Products obsolescence
- High costs of wastes management
- Maintenance of the environmental conditions or special regulations

Standard approaches

Logistics & SCM

- Re-design of the stocking-area layout aims to minimize material handling cost, but also involves:
 - minimize fixed asset costs
 - increase space occupancy, movement performance, material accessibility
 - guarantee Service level and material availability



Typical projects in Logistics & SCM are:

- Optimization of warehouse structure
- Re-Layout and process analysis
- Stock rationalization and reduction
- Opportunity / feasibility / suitability of automation solutions
- Opportunity / feasibility / suitability of software implementation analysis
- Storage locations and warehouse management
- Distribution network re-design

«Warehouse Management» case example

Background: Production plant of an Italian leader pharmaceutical company

posti pallet HVAC (pp) 12.632

baie di carico

FTE

Objective: Evaluation of outsourcing logistics providers for Distribution Center management



11.392

8

10

7.568

10

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Scenario 11



Focus and Improvement opportunities



- Low efficiency of the production lines due to idling, minor stops and reduced speed
- High complexity due to several presentations/formats and thus setup
- High maintenance costs to ensure maximum availability of the production lines



Standard approaches



«Maintenance Management» case example

- Background: Production plant of a world leader pharmaceutical company
- Objective: Maintenance Planning, implementing TPM



- Achievements
 - Maintenance criticalities identification
 - Increased plant Up-time

- Improvement of production plant stability and quality



Focus and Improvement opportunities



- Very high release cycle-time
- Complicated processes difficult to manage and to be monitored
- Unclear procedures and sometimes redundant
 - Inefficient documental structure and incomplete information flows
 - Analytical activities aimed to emergencies handling and out of control
- Frequent deviations and inadequate monitoring/mitigation system

Standard approaches

BPM & Process Improvement

BPM techniques allow to:

- Analyze utilized resources in order to balance workloads
- Improve efficiency in the information exchange and in documental structure
- Identify improvement opportunities to reduce the lead-time





Lean Lab

- Lean Lab allows laboratory activities to:
 - Ensure to reduce process losses with leaner flows of people and materials
 - Focus on activities with higher added value, those analytical ones

«Optimization of NPI process» case example

- Background: Production plant of a world leader pharmaceutical company
- Objective: Support to analysis and improvement of technology transfer process



Achievements

- RACI matrix, Business Process diagram, Document Criticality matrix
- Definition of road map to improve the TT process





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