

Flow Strategies and Process Design

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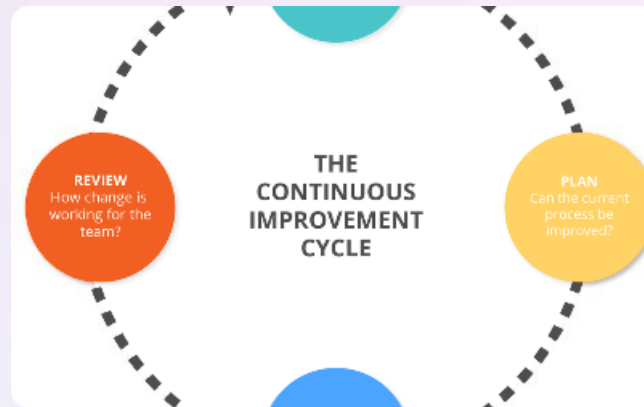
Exploring lean processing and operations, cellular manufacturing, and (re-)design of work systems.

Lean Processing



Efficiency Enhancement

Optimizing processes to reduce waste and enhance productivity.



Streamlined Workflows

Implementing strategies for smooth and efficient workflow management.



Continuous Improvement

Embracing a culture of continuous improvement and waste reduction.

Cellular Manufacturing

1 Workstation Efficiency

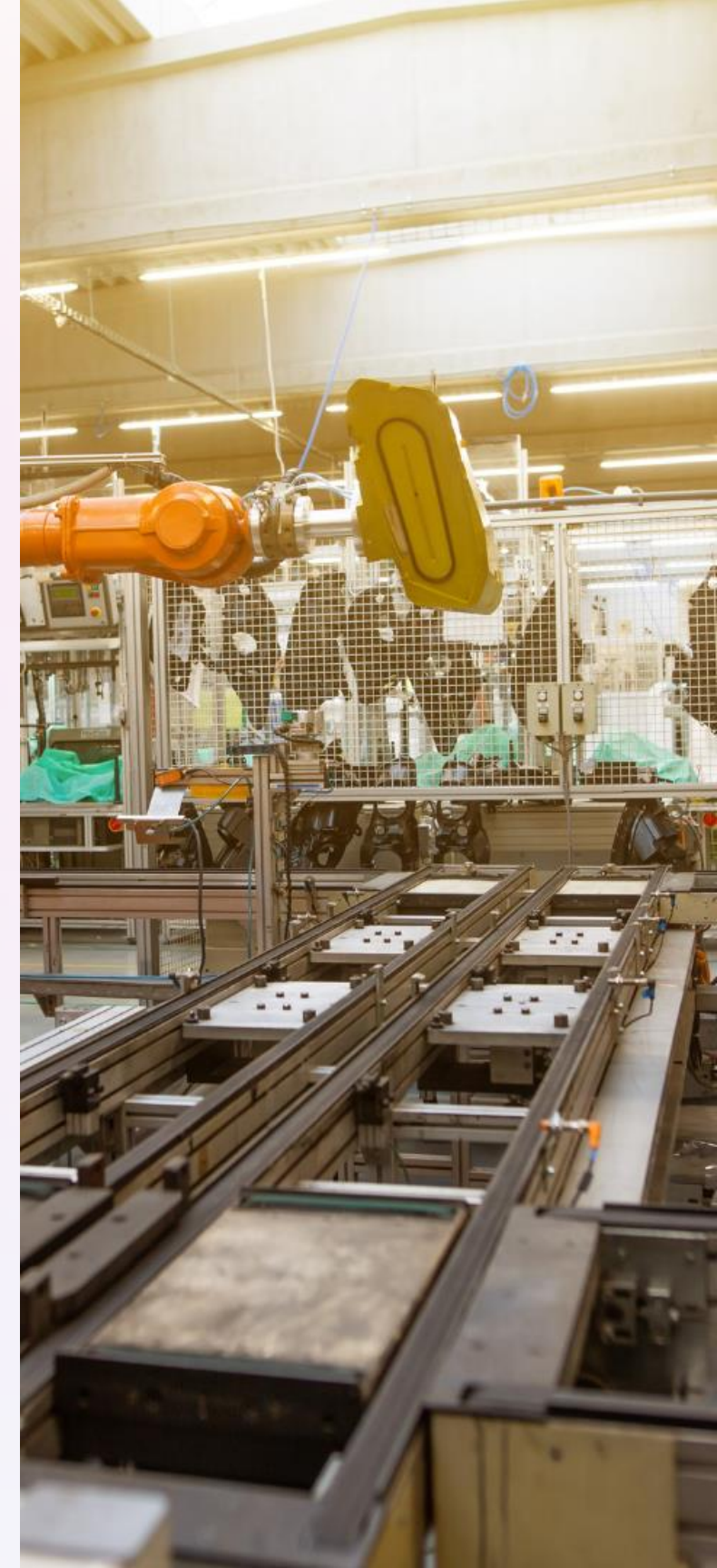
Organizing machinery and equipment to optimize production.

2 Enhanced Flexibility

Adapting to changes by reconfiguring cells for varying production needs.

3 Reduced Lead Times

Minimizing lead times through efficient cellular arrangement.



Work Measurement

Time Standards

Establishing precise time standards for conducting tasks.

Performance Evaluation

Assessing employee performance and process efficiency.

Process Optimization

Identifying opportunities for process improvement through accurate measurement.

Aggregate Production Planning

Resource Allocation

Distributing resources effectively to meet production targets. Planning for labor, raw materials, machinery, and other essentials.

Inventory Management

Maintaining optimal inventory levels to support production demands. Strategizing to reduce excess inventory and associated costs.

Integrated Strategies

Aligning production planning with sales and marketing goals. Creating a cohesive plan that accounts for market trends and customer demand.



② Routing

③ Scheduling

Scheduling: Flow Shop and Job Shop

1

Flow Shop

Optimizing production sequences for efficient, high-volume manufacturing.

2

Job Shop

Customizing production schedules to accommodate unique project requirements.



Management of Quality

1

Quality Assurance

Implementing strategies to ensure high-quality outputs and customer satisfaction.

2

Continuous Monitoring

Adopting measures for ongoing assessment and improvement of quality processes.

3

Employee Training

Investing in employee training to uphold quality standards and practices.

Strategic Planning for Production Design

3

Efficiency Ratios

5

Process Enhancements

Optimizing workflows and operations for greater efficiency.

2M

Employee Utilization

Thank You

