

The Management and Supervision of Modern Manufacturing



Dr. Ennis E. "Chip" Bailey
Franklin Institute, Mississippi State University

Overview

Instructor

Dr. Ennis E. Bailey “Chip”

Phone: (O) 662-325-6789, (C) 601-728-2246

email: ennis.bailey@msstate.edu

Objective

To provide a contemporary educational platform specifically designed for the manufacturing industry leadership.

Delivery

Four Modules each with four Sessions of three one hour classes.
Total instruction time 48 class hours usually completed in 16 weeks.

Scheduling

Recommended at one session per week (3 hours). Can be modified to meet individual industry needs and schedule.

MODULES OF INSTRUCTION

MODULE I.

Introduction to modern manufacturing (12 class hours)

- Session A.** General Introduction
(1) Introduction (2) Assessment (3) Training
- Session B.** Rolls of:
(1) Managers (2) Engineers (3) Supervisors
- Session C.** Overview of economics
(1) Macroeconomics (2) Production (3) Local
- Session D.** TEST – 1 (**All tests are designed for success**)
(1) Review (2) Test 1 (3) Discussion
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MODULE II.

Leadership (12 class hours)

- Session A.** Traits of leadership
(1) Theories (2) Emotions (3) Contexts
- Session B.** Issues of Leadership
(1) Character (2) Stress (3) Conflict
- Session C.** Motivation
(1) Concepts (2) Theories (3) Controlling
- Session D.** TEST - 2
(1) Review (2) Test 2 (3) Discussion

MODULES OF INSTRUCTION

MODULE III.

Management (12 class hours)

- Session A.** Organizational structure
(1) Classification (2) Types (3) Culture
- Session B.** Microeconomics
(1) Cost on Sales (2) Labor theories (3) Wages
- Session C.** Work design and analysis
(1) Job analysis (2) Human factors (3) Standards
- Session D.** TEST - 3
(1) Review (2) Test 3 (3) Discussion
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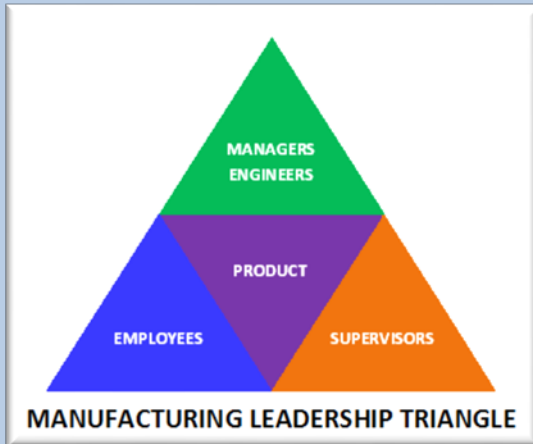
MODULE IV.

Modern manufacturing (12 class hours)

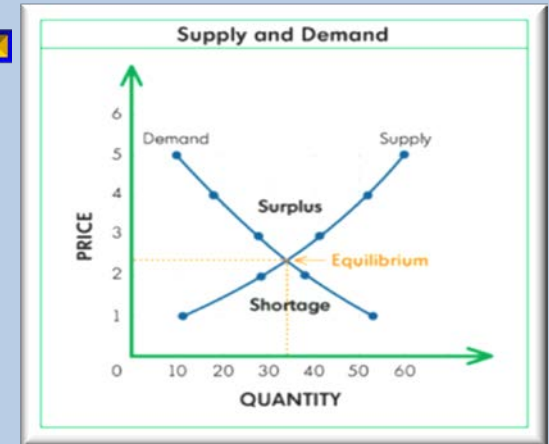
- Session A.** Introduction
(1) History (2) Strategies (3) Techniques
- Session B.** Improvement techniques
(1) Analysis (2) Supply chain (3) JIT
- Session C.** Implementation and Lean techniques
(1) Waste (2) Lean (3) Advanced Lean
- Session D.** TEST - 4
(1) Review (2) Test 3 (3) Discussion

MODULE – I

The role of Management, Engineers & Supervisors

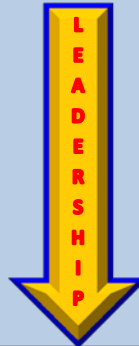


The role of Economics on the Market



STRATEGIC PLAN

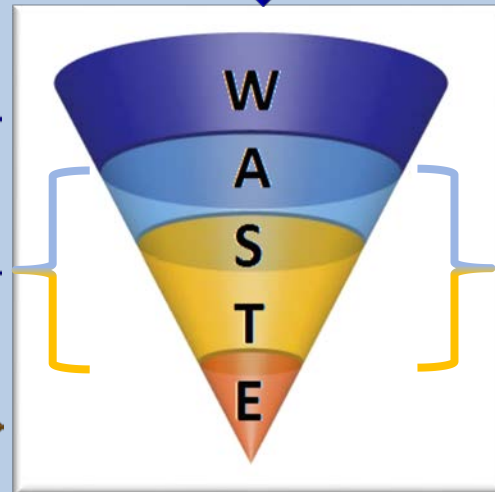
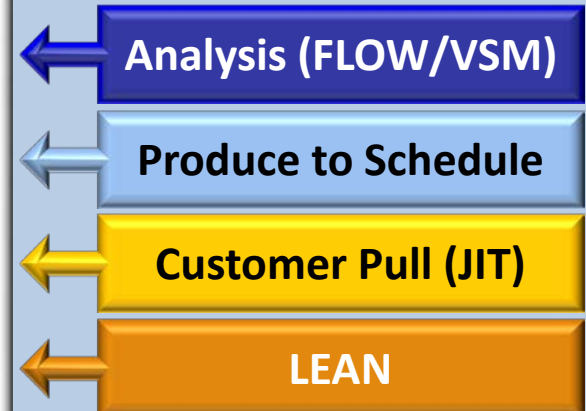
Where are we going?
Where are we now?
How do we get there



Guidance
Managers



Direction
Engineers



A production process is efficient if a given quantity of outputs cannot be produced with any less input. It is inefficient when there exists another feasible process that uses less inputs.

MODULE - II



The process of social influence in which one person is able to enlist the aid and support of others in the accomplishment of a common task.

Transactional
Transformational

Extrinsic motivator
Intrinsic motivator

The sum of qualities that stimulates a person to do the right thing despite internal or external pressure to the contrary.

Transactional model
Health Realization model

Ability to cope
Thought process

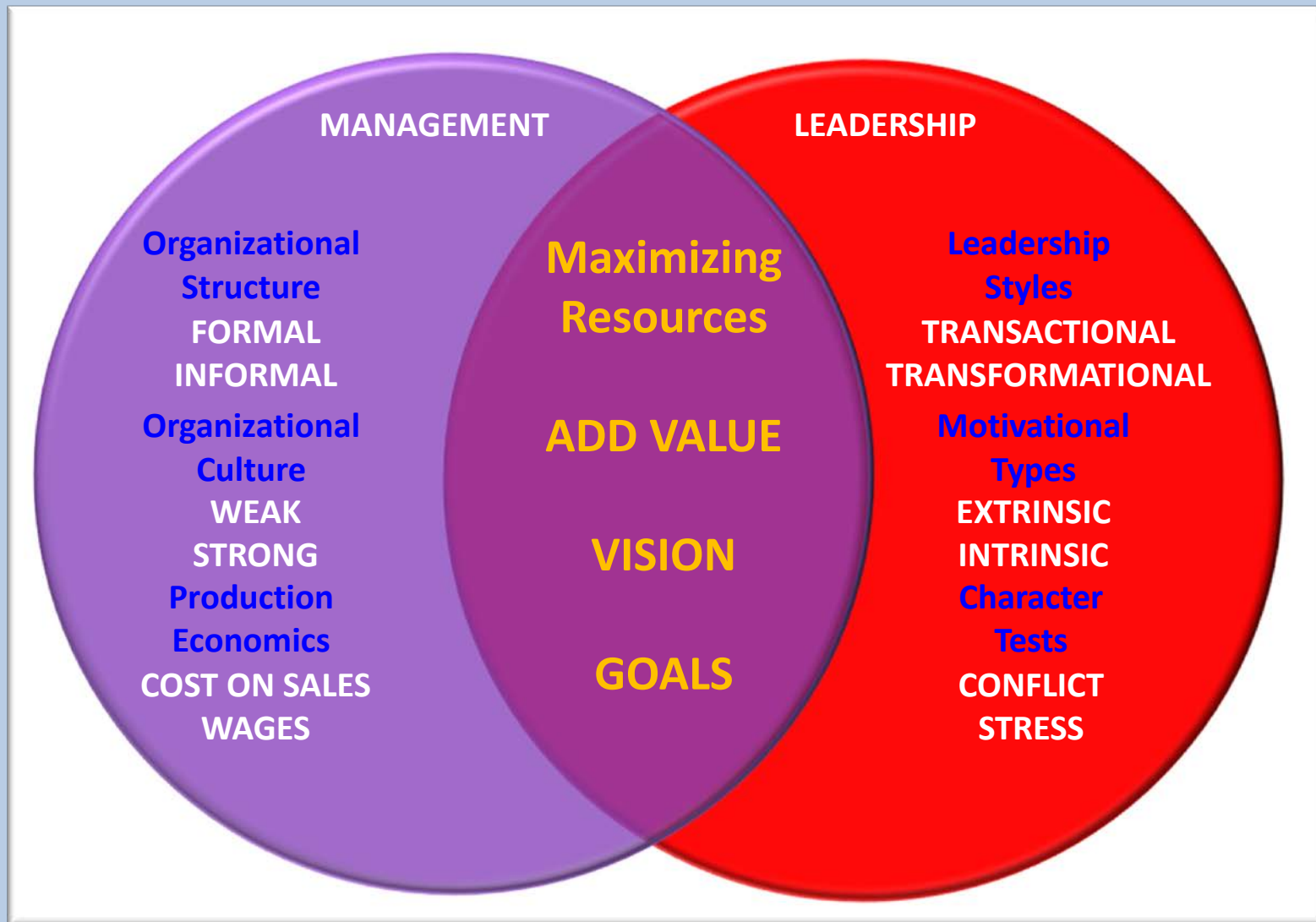
The set of reasons that determines one to engage in a particular behavior

Intrinsic motivation
Extrinsic motivation

Internal reasons
External reasons

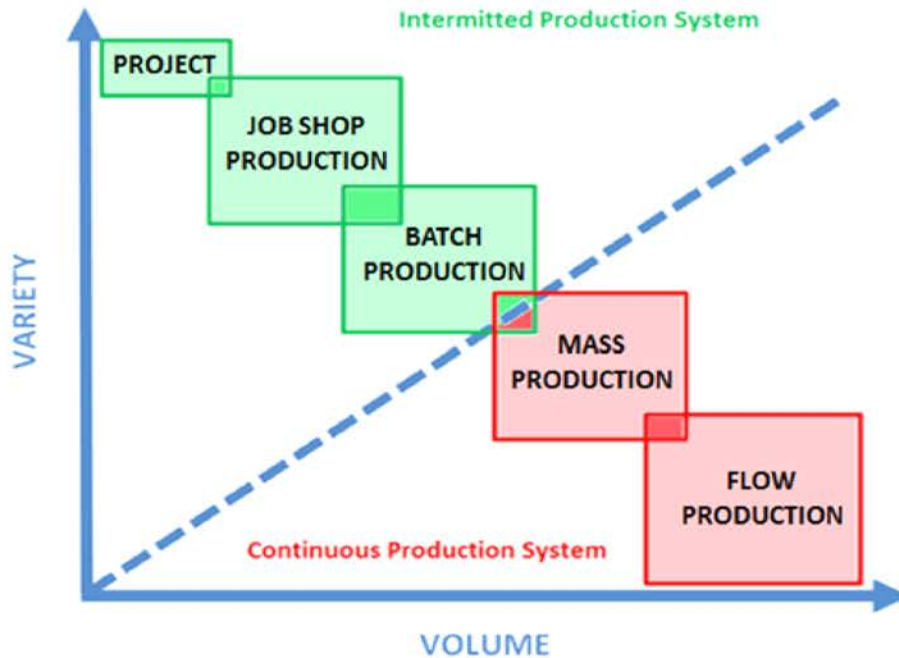
Effective leader – An individual with the capacity to **consistently** succeed in a given condition and be recognized as meeting the expectations of an organization or society.

MODULE - III



The ultimate goal is to provide perfect **value** to the **customer** through a perfect value creation process that has **zero waste**.

MODULE - IV



Customer Value

- Customer Defines Value
- End-To-End customer experience

Value Stream

- Does the work add value for the customer

Flow

- Achieve continuous flow
- Just-In-Time production

Pull

- Customer initiates the demand
- Demand pulls the value stream

Perfection

- Get it right the first time
- Continuous Improvement



Transportation

Unnecessary movements of products & materials.



Defects

Efforts caused by rework, scrap, and incorrect information.



Overproduction

Production that is more than needed or before it is needed.



Overprocessing

More work or higher quality than is required by the customer.



Talent

Underutilizing people's talents, skills, & knowledge.



Inventory

Excess products and materials not being processed.



Motion

Unnecessary movements by people (e.g., walking).



Waiting

Wasted time waiting for the next step in a process.

The projected sales **volume** is a major influencing factor in determining whether the strategy should be **intermittent** or **continuous** process.

Graduation

(Details at the discretion of the host industry)

THE
Franklin Institute
AT
Mississippi State University

παργωγή πλούτου μέσω της κατασκευής

This is to Acknowledge that

John Douex

**Has successfully completed the prescribed course of
instruction and scored accordingly to be recognized as a**

Graduate

WITH HIGHEST HONORS

from the **M**anufacturing **S**upervisor **M**anagement
program and is hereby awarded this diploma given on this
day

August 11, 2016



RESULTS*

Employees Trained	523
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Companies Participating	23
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Companies with multiple sections	9
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Graduate / Company retention rate	98%
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Graduate salary impact (avg. pay increase)	\$2032.⁰⁰
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* Program interrupted due to four (4) military deployments

¿ QUESTIONS ?