2-Day
Systematic Handling Analysis (SHA)

Description

A step-by-step application of Systematic Handling Analysis (SHA), recognized throughout the world as the most organized way to plan and select material handling methods. This workshop will prepare you to organize and lead material handling improvements. Hands-on case problems in manufacturing and warehousing assure your mastery of the techniques and information presented.

Essential learning for those who are seeking cost reductions through better handling methods. Also valuable for those who must replace, upgrade, or add material handling equipment.

Note: This course is an excellent introduction for those new to the field or to the technical side of material handling analysis.

Objectives

- To reduce material handling costs.
- To improve the planning and performance of material handling systems.

Who Will Benefit

- Material handling and logistics engineers
- Manufacturing and process engineers
- Industrial Engineers and systems analysts
- Production supervisors and team leaders
- Warehouse supervisors and team leaders
- Cell planning and Lean Manufacturing teams

Timing

Duration: 2 days
(1-, 3-, and 5-day versions also available)

Start:	8:00
AM Break:	10:30
Lunch:	12:00 – 1:00
PM Breaks:	2:15 & 3:45
Adjourn Day 1:	5:00
Adjourn Day 2:	4:30

Course Outline

Day One

A. HOW TO ATTACK MATERIAL HANDLING PROBLEMS

- Welcome and introductions.
- Checklist and survey.
- Principles of material handling.
- Standard problem-solving approach.
- Work sampling.
- Logical, organized analysis.

B. SYSTEMATIC HANDLING ANALYSIS (SHA)

- Fundamentals: materials, moves, methods.
- Four phases of systematic planning.
- Steps and procedures.
- Six-step approach for simple problems.
- Example of Systematic Handling Analysis.

C. ANALYSIS & VISUALIZATION OF MOVES

- Key input data.
- Ways to classify materials.
- Picturing materials, moves and layout.
- How to make a quantified flow diagram.
- How to make a distance-intensity plot.

D. COST PATTERNS OF HANDLING EQUIPMENT AND METHODS

- Classification of material handling equipment.
- Cost basis for selection of material handling equipment.
- Systems of moves: direct and indirect.
- When to use and when not to use certain equipment.

E. CASE EXERCISE: WAREHOUSE HANDLING ANALYSIS

- Work in teams and apply Systematic Handling Analysis (SHA) to prepare a warehouse handling plan.

F. ORDER-PICKING METHODS & ANALYSES

- Storage methods and equipment.
- Profiling orders and warehouse activity.
- Typical strategies for order picking.
- Implications for material handling and storage.

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Course Outline continued

Day Two

A. INTEGRATING MATERIAL HANDLING WITH FACILITIES & OPERATIONS

- Anatomy of an industrial facility.
- The impact of layout and operating strategy on material handling methods.
- Communications and controls.
- Integrated material/data-flow diagram.

B. CASE EXERCISE – MANUFACTURING HANDLING ANALYSIS

- Work in teams and use Systematic Handling Analysis (SHA) to evaluate a manufacturing facility's methods.
- Identify better methods and choices.

C. CASE EXERCISE CONTINUES

- Prepare a project plan for material handling improvement.

D. DETAIL & WORKPLACE HANDLING ANALYSIS

- Departmental and workplace handling.
- The role of simulation.
- Ergonomics and manual lifting.
- Workplace handling equipment.

E. JUSTIFYING MATERIAL HANDLING INVESTMENTS

- Categories of costs and savings.
- Justification methods.
- Comparing intangible factors.

F. PUTTING IT ALL TOGETHER

- Basic concepts of material handling.
- Systematic Handling Analysis (SHA) in action.
- What top management wants to know.