

2-Day Systematic Layout Planning (SLP)

Description

A step-by-step application of Systematic Layout Planning (SLP), recognized throughout the world as the most organized way to develop layout plans. Thousands of projects have been successfully completed with SLP. On Day 1 you will learn this universal method. Working in teams on Day 2, you will use SLP to prepare a manufacturing plant layout.

Essential learning for those who are adding new equipment or capacity, rearranging for better material flow and throughput, expanding or consolidating facilities, implementing work cells and lean manufacturing...

Note: While manufacturing examples are used, the procedures you will learn are equally effective for warehouses, offices, and labs.

Objectives

- To reduce material handling costs.
- To achieve more productive facilities.
- To provide for flexibility, adaptability and expandability.

Who Will Benefit

- Plant and Manufacturing Managers
- Manufacturing and process engineers
- Industrial Engineers and layout planners
- Facilities planners, plant engineers, and architects
- Production supervisors and team leaders
- Cell planning and Lean Manufacturing implementation 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. INTRODUCTION TO LAYOUT PLANNING

- Levels of physical planning.
- Typical approaches to layout planning.
- Systematic Layout Planning (SLP)
- Phases, procedures, and conventions.
- Key input data.

B. CASE EXERCISE IN SYSTEMATIC LAYOUT PLANNING

- Analysis of material flow.
- Relationship charting and diagramming.
- Developing preliminary plans.

C. HOW TO ANALYZE CLOSENESS DESIRED

- 12 reasons for closeness between activities.
- Process charting and diagramming.
- From-To charts.
- Combining flow and other-than-flow relationships.

D. CLASSICAL TYPES OF LAYOUT PLANS

- Primary divisions of space.
- Product-Quantity analysis and what it can tell you.
- Layout by product, process, and fixed position.
- Group technology, cellular, and lean manufacturing.
- Typical benefits of manufacturing cells.

E. SPACE REQUIREMENTS AND ADJUSTMENT

- Five ways to determine space requirements.
- Balancing needs with availability.
- Recognizing features and types of space.
- Adjustments for fit and function.
- Four basic flow patterns and their benefits.

F. EVALUATING ALTERNATIVE PLANS

- The weighted factor method.
- Common intangible factors in layout planning.
- What top management wants to know before approving your plans.

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Course Outline continued

Day Two

A. RECAP OF BASIC CONCEPTS

- Review and questions.
- Ten basic concepts of layout planning.

B. CASE EXERCISE – BLOCK LAYOUT PLANNING

- Hands-on group work.
- Guided application in block layout planning.
- Key input data.
- Flow of materials analysis.

C. CASE EXERCISE CONTINUES

- Combining flow and other-than-flow relationships.
- Relationship charting.
- Activity-relationship diagram.
- Space relationship diagram.

D. CASE EXERCISE CONTINUES

- Adjustment into block layout plans and evaluation of results.

E. DETAILED PLANS & VISUALIZATION

- Detailed planning process.
- Alternative detailed arrangements.
- Detailed space requirements
- Methods of visualization.

F. USING SLP

- Review of key techniques and concepts.
- Simplified 6-step procedure for small projects.
- Getting started.

NOTE ON DAY TWO CASE EXERCISE

The main feature of Day Two is an extended case exercise in manufacturing plant layout. With a day of advanced preparation, our instructor can substitute a discussion of your own situation, including application of specific techniques learned on Day One. Or, you may retain our instructor for an additional 3rd day during which SLP is applied to your planning situation, after practicing on our case problem.