

2-Day Systematic Master Site Planning

Description

Taught by the world's leading authorities, this unique learn-by-doing Work Course will help you to establish space and site requirements and achieve the best arrangement of land use and buildings. Adapted from our proven methodology, Systematic Planning of Industrial Facilities (SPIF), this course will enable you to get faster decisions from top management and from the outside agencies that must approve your plans. The course can be customized to concentrate on "Greenfield" new site and expansion planning, or on "Brownfield" redevelopment of large existing facilities. Originally developed for the U.S. Department of Energy and used to prepare for its post-Cold War conversion of U.S. nuclear weapons facilities.

Objectives

- To maximize the value of major facilities investments.
- To preserve and increase the value of existing sites and real estate.
- To increase the effectiveness and productivity of industrial facilities planners.

Who Will Benefit

- Facilities and layout planners
- Plant & Operations Managers
- Real Estate & Facilities Managers
- Architects, land planners, and developers

Timing

Duration: 2 days
(3-day version also available)
Start each day: 8:00
AM Break: 10:30
Lunch: 12:00 – 1:00
PM Breaks: 2:15 & 3:45
Adjourn each day: 5:00

Course Outline

Day One

A. SYSTEMATIC PLANNING OF INDUSTRIAL FACILITIES (SPIF)

- Why plan facilities?
- Horizons, levels, and phases of planning.
- Anatomy of industrial facilities.
- Key inputs.
- Pattern of planning procedures.
- Integrated facilities planning.

B. SYSTEMATIC MASTER SITE PLANNING (SMSP)

- Case exercise in conceptual site layout.
- Application of SPIF planning procedures to master site planning.
- Instructions for master site planning.
- Three aspects of planning.
- Case examples of systematic site planning.

C. CASE EXERCISE IN PROJECT PLANNING

- Apply the previous session's techniques to a site-planning situation.
- Current site appraisals.
- Utilities distribution planning.

D. CASE EXERCISE IN SMSP

- Planning around dominant issues.
- What's wrong with these sites?
- Typical problem situations on medium and small sites.

E. ESTABLISHING SITE REQUIREMENTS

- How to develop Site Mission Statements.
- Projecting key inputs.
- Ratio-trends and projections
- Type-of-space projections.
- Case exercise in long-range space projection.

F. THE SITE SATURATION METHOD

- Understanding land-to-building ratios.
- Land use classifications and indexing.
- Case problem: Land-to-building ratios.

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Course Outline continued

Day Two

A. CASE EXERCISE: PHASE I --ORIENTATION

- Apply what you have learned on Day One to a realistic planning situation.
- Organizing the site-planning project.
- Projecting space requirements.
- Identifying dominant considerations.
- Investigating and clarifying key inputs.
- Defining activity-areas.

B. CASE EXERCISE: DEVELOPING A CONCEPTUAL ARRANGEMENT

- Relationship chart & diagram.
- Space relationship diagram.
- Examples of concept planning.

C. CASE EXERCISE: DEVELOPING A PRELIMINARY SITE PLAN

- Site planning principles.
- Typical physical arrangements.
- Building considerations.
- Flow patterns.
- Physical growth plans.
- Ways to provide flexibility.
- Keeping track of planning assumptions.
- How to evaluate alternative site plans.

D. CASE EXERCISE: STAGES OF SITE DEVELOPMENT

- Time-phasing the implementation of a master site plan.
- The space balance technique.

E. DOWNSIZING & REDEVELOPMENT

- Case discussion: consolidation of existing sites & facilities.
- Case discussion: redevelopment for new uses & occupants.

F. PUTTING IT ALL TOGETHER

- Timing and plant capacity: lead or lag business cycles.
- Project scheduling methods.
- What top management wants to know.