



- C. Organizing the cell-planning project
  - D. Gathering and analyzing input data
  - E. Methods of classifying parts
  - F. Summarizing and communicating parts classifications
  - G. Determining equipment requirements and utilization
  - H. Analyzing flow through the cell
  - I. Interrelating parts and process
  - J. Visual graphics for cell-planning diagrams
  - K. Physical arrangement of the cell — basic choices
  - L. Materials handling within the cell
  - M. Other coupling factors: physical, procedural, people
- V. Systematic Planning in Action
- A. Hands-on group work for real problem (with guided application) to develop a "preliminary" cell plan
- VI. Modifying, Selection and Accepting Cell Plans
- A. Modify and refine overall cell alternatives
  - B. Ensuring viability of cell plans
  - C. Balancing workload and flow
  - D. Financial considerations
  - E. Evaluating intangible factors
  - F. Selecting the most-preferred plan
  - G. What management wants to know before approving cell plans
- VII. Case Problem in Detailed Cell Planning
- A. Levels of planning
  - B. Alternative approaches to detail planning
  - C. Enrollee teams develop a detailed plan (with guided application) for a real problem, incorporating physical, procedural, and people aspects of a cell
- VIII. Principles of Motion Economy & Workplace Design
- A. The role of ergonomics in detail planning
  - B. Normal and maximum working areas for hand motions
  - C. Checklist for work simplification
- IX. Management Issues and Implementation
- A. Organizing the physical aspects of implementation
  - B. Training and involving the cell operating team
  - C. Cell support systems — Scheduling, Quality and Maintenance
  - D.

- X. Technology and Strategic Issues in Cellular Manufacturing
  - A. Automation and systems integration
  - B. Technical issues and considerations
  - C. The strategic role of cellular manufacturing
  - D. Supply chain thinking — external coupling with suppliers, customers, sales and distribution
  - E. The need for facilities and logistics strategies
  - F. Sources of savings and benefits