Chapter Outline

# Chapter 18: Master Scheduling and Material Requirements Planning

***See pages 640-682.***

Operations Profile: Managing Materials and Production at Rolls-Royce

Master Scheduling

Master Scheduling Inputs, Processing, and Outputs

Functions of the Master Schedule

Master Schedule Planning Horizon and Replanning

Achieving Master Schedule Stability

Relationship Between the Master Schedule and the Production Environment

Material Requirements Planning

MRP Terminology

MRP Inputs, Process, and Outputs

Other Considerations in MRP

Potential Benefits and Drawbacks of MRP

Integrating MRP and JIT Systems

MRP in the Service Sector

Ethical and Sustainability Issues

Chapter Summary

Key Terms

Discussion and Review Questions

Solved Problems

Problems

Case Study 18.1: Bringing Order to a Chaotic Restaurant

Video Case

Critical Thinking Exercises