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