PD620
Core Engineering Management

Day One

- Planning Business Strategies
  - Business Plans
  - Portfolio Analysis
  - SWOT Analysis
  - Porter's Model
  - Forecasting
  - Trend Analysis
  - Risk Analysis
  - Cost Analysis Techniques
  - Life Cycle Engineering
  - Pricing
- Product Development
  - Systems Design
  - Design for Environment

Day Two

- Product Development (continued)
  - Technology Assessment
  - Competitors
- Engineering Operations Management
  - Engineering Disciplines
  - Partnering and Outsourcing
  - Design for Manufacturability
  - Human Factors Engineering
  - Lean Manufacturing
  - Six Sigma
  - Safety Standards
  - Codes, Standards and Regulations
  - Practical Product Design
  - Project Management
  - Project Life Cycle

Day Three

- Financial Resources
  - Scope, Schedule, and Budget
  - Budgeting Techniques
  - Cash Flow Techniques
- Legal Issues
  - Patents, Copyright and Trademarks
  - Types of Contracts
- Engineering Operations Management for the Project
  - Supply Chain Management
  - Inventory Management
  - Balanced Scorecard
  - Systems Thinking
  - Project Risk
  - Problem Solving

Day Four

- Engineering Operations Management for the Project (Continued)
  - Root Cause Analysis
  - Change Management
- Leading Project Teams
  - Management vs. Leadership
  - Principle-Centered Leadership
  - Transformational Leadership
  - Competency Models
  - Managing a Diverse Workforce
  - Conflict Resolution
  - Professionalism