# **Business Management for Engineers**

This course provides an overview of basic principles used to manage a business. In particular, this course will help individuals with a strong technical background in science or engineering prepare for the transition from a role as a technical contributor to a business leader.

# **Overview of Basic Business Principles**

- Capitalism & Economic Expansion
- Free Markets
- Cost, Price, and Value
- The Role of Governments
- The Business of Business
- Business Structure

#### **Evaluating a Business**

- Operations Management
- Evaluating a Product or Product Line
- Evaluating a Business Unit
- Evaluating a Company
- Evaluating a Government Program
- Real World Examples

#### Initiating & Planning a Program

- Engineering and Program Management
- Life Cycle Processes
- Program Artifacts
- The Business Impact of Technical Decisions

#### Monitoring & Controlling a Program

- Financial Management
- Earned Value Management (EVM)
- Taking Control Business Decisions

#### **Growing a Business**

- Strategy The Business Model
- Marketing The Customer Base
- Sales The Value Proposition

#### **Developing & Presenting a Business Case**

- Investment Required
- Return on Investment (Rol)
- Delivering a Business Message
  - Business vs Technical
  - Presentation Skills

# **Business Regulations**

- US Federal Acquisition Regulations
- US Export Regulations ITAR & EAR
- Globalization
  - Foreign Import Regulations
  - Differences in Culture & Currency

### Learning to Lead

- Review of Key Takeaways
- Increasing Your Value Proposition
- Continuing Education

## Dr. Alan Tribble is a

Principal Program Manager for Rockwell Collins. He previously held positions as Systems Engineer, Engineering Manager, Marketing Manager, and Technical



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Mr. Breitbart and Dr. Tribble have collaborated on a number of programs in recent years as both program manager and chief engineer, or sales lead and marketing lead, respectively.