# Cloud Fundamentals

## Course Summary

### Description

This workshop provides attendees with a complete overview of the subject of cloud computing. Assuming no pre-existing knowledge of cloud computing, this workshop discusses the key concepts of cloud computing and helps attendees plan for their cloud computing future. Common objections and challenges regarding cloud computing are addressed to ensure that attendees are prepared for cloud computing success.

### Objectives

At the end of this course, students will be able to:

- Understand cloud fundamentals
- Apply cloud computing to their applications and infrastructures.

### Topics

- Key cloud computing characteristics
- Cloud computing architectures and impact on application design
- Common concerns about cloud computing and how to address them
- How cloud computing requires breaking down the silos of IT organizations to create an integrated compute infrastructure
- Creating a cloud computing action plan

### Audience

- Senior IT managers assessing the potential for leveraging cloud computing
- System architects designing systems incorporating cloud computing
- IT operations managers responsible for infrastructure services
- Application developers considering cloud computing options for future projects

### Duration

One day

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

# Cloud Fundamentals

## Course Outline

**I. Cloud Computing: An Introduction**
- A. Key Concepts
- B. Benefits of Cloud Computing
- C. Leading Cloud Computing Providers: Offerings and Architectures
- D. When Cloud Computing Isn't a Good Fit

**II. Cloud Computing Requirements and Challenges**
- A. Application Design
- B. System Management
- C. Storage
- D. Security
- E. Maintaining Control
- F. Financial Assessment of Cloud Computing

**III. Moving to Cloud Computing**
- A. Developing Employee Skills
- B. Integrating Cloud Principles into System Architecture, Design, and Implementation
- C. Migrating Existing Applications
- D. Finding Service Providers

**IV. Exploring Cloud Computing Opportunities**
- A. Typical First Projects
- B. Developing an Initial Project Plan
- C. Project Management
- D. Assessing Pros and Cons of Initial Projects

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically