Event Modeling:
A Power Vehicle for Navigating Requirements

Course Description
Events provide a “navigation system” for identifying and tracking the business behavior of an application. Event modeling is a fast, powerful, practical way to uncover requirements, prioritize releases, and size a project. Event modeling also helps technical and business stakeholders communicate, organize, and track requirements and stay on track during development.

This half-day course teaches you how to leverage event modeling for many types of projects: new development, COTS (commercial off-the-shelf software), and enhancements. You will learn how to define events (business, temporal, and signal) to scope a project and clarify system boundaries. You will explore items that events spawn—such as responses, participants, and data—to gain a deeper understanding of requirements.

The six exercises help you learn how to discover, analyze, and specify events. These exercises enable you evaluate when, where, and how events will be useful for navigating to other requirements models including process maps, business rules, and user interfaces.

Audience
This course is valuable for business analysts, application analysts, data analysts, designers, and quality assurance personnel. Preferably, you should have reading knowledge of use cases, logical data models, and state diagrams.

Course Length
1/2 day

Objectives
- Define event dependencies
- Trace events to requirements models and external interfaces
- Use events to verify the completeness and correctness of user requirements
- Describe how events can be used to scope a project and partition delivery into multiple releases

Course Outline
1. Fundamentals of Events
   - Definitions: events
   - Design and analysis perspectives
   - Navigating with events
   - Testing events
2. Modeling Events
   - Events and the Requirements Roadmap
   - Events and model views
   - Event participants
   - Event types (business, temporal, signal)
   - Finding Events
   - Visualizing events on the context diagram
   - Event-response table
   - Events and interface requirements
   - Detailing events
   - Partitioning activities with events
   - Event granularity and rightsizing
   - Navigating to the data model
   - Verifying events with data
   - Navigating to the state diagram
   - Event conditions
   - Types of event dependencies
   - Partitioning events
   - Navigating across requirements models
   - Detailing events
3. Leveraging Events
   - Event modeling benefits
   - Events across the lifecycle
   - Extended event-response table
   - Project management benefits
   - Recap

Appendices
References and Readings
Interaction Matrix Verification Table