

## **PRISM® Training Course**

This course is designed to give the PRISM® user an in-depth understanding of the theory behind the various models utilized, and the actual use of, the software itself. Each student has access to his/her own computer and is given two full days of actual hands-on PRISM® exposure. After completing this course the user should have sufficient knowledge and expertise to effectively utilize all of the features of this modern reliability assessment tool on their own. The primary intent of the course is to assist the user in making that sometimes difficult transition from a novice user to a journeyman PRISM® user.

### **Course Instructor**

Nathan D. Holzhauer is a Reliability Engineer with 4 years of engineering and 6 years of teaching experience. He routinely serves as a Project Engineer for commercial, military and space programs that address various reliability and maintainability (R&M) concerns. He has analyzed numerous systems using the PRISM methodology and is familiar with other reliability prediction approaches. He brings to the classroom practical PRISM project experience, as well as an understanding of the PRISM methodology and development process. Mr. Holzhauer received his BS in Engineering Physics from St. Bonaventure University in 1998. He also holds a Certificate in System Safety and Reliability from the University of Washington.

### **Course Contents**

#### **Commencing a PRISM® Reliability Prediction**

1. PRISM® Overview
2. Creating a New System
3. Building the System Structure

#### **The PRISM® Part Level Model**

1. Part Prediction using Default Values
2. Part Prediction using Defined Values
3. Prediction with RAC Data and User Data
4. Using the PRISM® Component Library
5. The PRISM® Software Model
6. Summarizing the Failure Rate

#### **The PRISM® System Level Model**

1. Process Grade Factors
2. Process Grade Sets
3. Change Control Functions
4. Editing the System Data
5. Printing the PRISM® Reports
6. A Comprehensive Student Exercise

#### **Advanced PRISM® Operations**

1. Dormant Storage Analysis
2. Predecessor Analysis
3. Bayesian Analysis

#### **PRISM® Sharing and Maintenance**

1. Sharing PRISM® Systems
2. Sharing PRISM® Libraries
3. PRISM® Importing and Exporting Functions
4. Other Useful Functions and Tech Support