

# RPC® Connect Basic Software Operation

4 day course

## **COURSE OUTLINE**

- I. **RPC Fundamentals**
- II. **Data Acquisition**
  - A. How and what data to acquire?
  - B. Data acquisition equipment & preparation
- III. **Getting started with RPC Connect**
- IV. **Data preparation – Analysis**
  - A. Time, Spectral, and Statistical analysis
  - B. Import and data analysis tools in RPC
- V. **Data preparation – Editing**
  - A. Time and Frequency based editing
  - B. Data editing tools in Connect
- VI. **Measure & Evaluate System Behavior (FRF)**
- VII. **Invert and Prepare FRF Inverse**
- VIII. **Iterate**
  - A. Understanding iteration process
  - B. Evaluate iteration results
  - C. Perform automatic iterations
- IX. **Run Durability Test**
- X. **Introduction to Fatigue**

This course teaches the basics of the RPC Connect software package for data validation, analysis, lab simulations and durability test setup. This course also provides an introduction to cycle counting and the fatigue damage calculation capabilities of RPC Connect. Included will be discussion of RPC simulation theory as well as software application operation to provide comprehensive learning experience including hands-on lab practice. Advanced simulation techniques are covered in the RPC Connect Advanced course.

### **Who should attend**

Entry-level engineers, test operators or experienced technicians with some related test experience. The course will provide the training necessary to allow simulation operators to understand simulation concepts and run RPC Connect software.

### **Prerequisites**

Students should have some experience prior to attending this course in using the MTS 793 application and a working knowledge of the current Microsoft operating system. All prerequisites are the students' responsibility.