MAX™ Cyclic Fatigue Software Operator's Course

Realise the potential of your operator personnel and investment in Instron® equipment through comprehensive 'hands-on' interactive instruction.
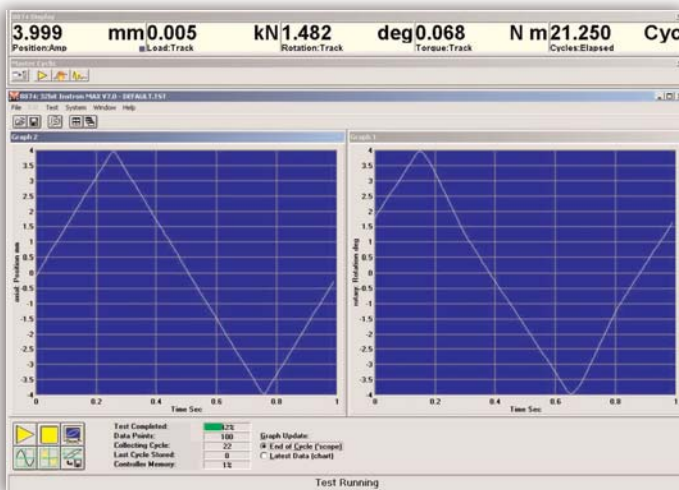
Duration: 2 days

Who Should Attend?

- New MAX operators
- Test instrument operators
- Lab supervisors
- Product engineers, product inspectors
- Anyone who installs, customises, or administrates Instron MAX Software
- New WaveMaker™ operators

Simple fatigue.

Course Description

Comprehensive computer and system training on MAX multi-axis cyclic software. Students will learn how to design and run tests ranging from simple LCF to complex random simulations. Instruction on the setup of statistics, calculations and result tables will also be covered.

Course Objectives

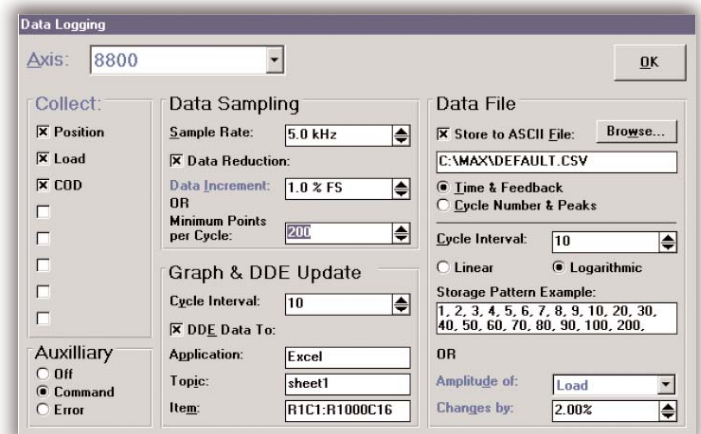### After completing this course, students will be able to:

- Configure your display screen and control panel
- Set-up control test parameters
- Set-up limits and closed loop control gains (PID)
- Set-up various data logging options
- Electronically calibrate and balance your transducers
- Run waveform preview feature
- Set-up statistics, calculations and result tables
- Save and retrieve your test methods
- Set-up various fatigue testing applications
- Import CSV files for spectrum loading
- Run your tests, generate graphs/reports and results

Data logging window.

Course Outline

Day 1

9:00 a.m. - 4:45 p.m. (approximately)

- Introduction to MAX™ for Windows●
- Program features
- Installing MAX
- Starting and operating MAX
- MAX menus
- MAX toolbars
- Live displays
- Graphs
- Setting system parameters
- System setup
- Axis selector
- Axis type
- Setting channel parameters
- Channel setup screen
- Channel selector
- Calibration
- Loading and saving tests
- Designing a test
- Running a test
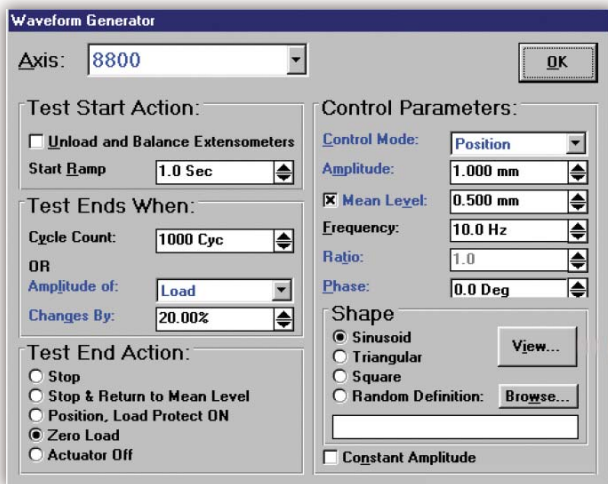- Messages

Day 2

9:00 a.m. - 4:45 p.m. (approximately)

- Create user-defined waveforms
- Create a custom waveform
- CSV file format
- Import a CSV file
- Custom waveform type
- Save the RDF file
- Test sequencer
- Creating a sequence
- Running a sequence
- Troubleshooting
- File sharing
- Importing CSV values
- Data overflow
- File options and parameters

Prerequisites:

- A fundermental operating knowledge of modern PC's, including the basic use of MS Windows
- A familiarity with materials testing concepts and principles
- Test instrument operation experience would be an advantage
- Completion of the single axis 8800 series operators course

Training Material:

- Training manual included

Waveform generator.

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