



ES222 Advanced Scale System Troubleshooting Program Outline

This program is made up of 8 course modules. Below is a breakdown of topics that will be covered along with a minimum time commitment for each section. The total minimum commitment is roughly 5 hours and 30 minutes.

Overview - 10 minutes

- RLWS Corporate Video
- Course Expectations
- Overall Themes
- Course Walkthrough

Reading Diagrams - 30 minutes

- Terminology
- Symbols
- Testing Points

Proper Grounding - 20 minutes

- Single Point Grounding
- Testing the Ground
- Failure Analysis

Troubleshooting - 30 minutes

- Being Prepared
- Divide and Conquer
- Troubleshooting Methodology

Advanced Load Cell Theory - 35 minutes

- Troubleshooting
- Diagnosing Resistance Readings
- Other Load Cell Technologies
- Determining Color Code of an Unknown Cell
- Determining Capacity of an unknown Cell

Data Communications - 60 minutes

- Types of Communication
- Ohming Out Wires
- Troubleshooting Communications
- Checking Communications With EDP
- Identifying Pinout
- Patch vs Crossover Cables
- Network Troubleshooting
- What is A Null Modem Adapter
- Viewing Hex in Hercules

Load Cell Behavior and Selection - 80 minutes

- Load Application
- Calibration
- Maximizing Accuracy
- Selecting A Load Cell For Your Applicaiton

Label Formatting - 20 minutes

- Zebra
- Eltron
- GoDex
- Datamax

Process Control Theory and Application - 30 minutes

- Setpoint Maps
- Setpoint Kinds
- Routine Planning
- Free-Running vs Batching

Final Exam - 30 minutes

- Multiple Choice
- True False
- Certificate Earned at 70% or Better