Driving Rapid and Continuous Value with Industrial IoT Technology

Onsite – 32 Hours – Optimum Class Size: 3-15 Participants

Training Description

Industrial Internet of Things initiatives drive manufacturing improvement by providing real time and historical insight into what is happening on the shop floor. In this training, participants will learn how to use software that will help their company improve equipment efficiency and provide real time operational data. This training will provide an easy to implement solution for connecting to and capturing data from any piece of discrete manufacturing equipment, regardless of brand or age. Data is then fed back to the plant and other consumers within the manufacturing lifecycle in ways that drive value and continuous improvement for the company. This training is delivered onsite, in person, and is geared for management and shop floor personnel.

Training Objectives

Participants will develop a full understanding of IIoT enabled technology and the importance of data analytics. In addition, participants will become proficient with running daily operations and production scoring. After taking this training, participants will be able to utilize reports and dashboards to drive continuous improvement efforts in their own manufacturing facilities. They will understand how machine utilization, cycle times, and other metrics drive effective job costing. Participants will be able to organize a manufacturing team around a digital solution which will lead to increased productivity, performance, and profitability, leading them to make better-informed decisions by using data that is driven by their actual production, rather than guesstimates.

Skills Attainment

- Understand how to use CNC machine data to make business decisions
- Use dashboards and real-time reporting to increase productivity
- Organize a manufacturing team around a digital solution
- Use the collected data to spot trends and more accurately quote jobs
- Interpret reports to accelerate information gathering for daily production meetings
- Analyze the data to measure overall factory performance without human error or bias

Agenda:

During the first two days of training, participants will learn how to install and hardware their factory machines with the software. The client's factory machines will then collect data for a few weeks. The final two days of the training consist of instruction on how to utilize the collected data to improve the operation.

The follow topics will be covered:

- Data analytics in manufacturing and the transformative power of machine-derived insights
- How benchmarks are determined from actual job runs and their relation to production scores
- Why shop floor digitization creates a culture of communication and real-time problem solving
- The importance of understanding overall factory performance in making business decisions
- Which jobs offer the best and most immediate opportunities for improvement and profitability
- Simulation training - A day in the life of a data-driven company. The daily production meeting.
- MBO's supported by the technology—Efficiency metrics derived, baselined and compared

Prerequisites:

- This training requires one or more large screen TV's with a web browser on your shop floor
- Up to six CNC Machines (post 2001) - software will be installed for three months to demonstrate the value of next gen production monitoring