

## **APPLYING SPC FOR MANUFACTURING TO IMPROVE QUALITY**

### **Key focus**

1. Understand the principles of SPC
2. Set up a new SPC program
3. Interpret SPC Control Charts

### **Who will benefit**

This course is suitable for fab operators, process engineers, process technicians, maintenance technicians, equipment engineers, quality control and assurance personnel, sales/marketing staff, customer service personnel, field service engineers, and technical support personnel, everyone who is interested in understanding the fundamentals of Statistical Process Control (SPC) methods, and workers in the manufacturing..

**Take The Next Step**

## Day one

### 1. Reading Control Charts

- ▶ Common cause and special cause variation
- ▶ Responsibility to investigate
- ▶ Different kind of signals

*Morning tea break*

### 2. X bar R Charts

- ▶ How to construct
- ▶ Subgroup size
- ▶ Understanding range chart

*Lunch*

- ▶ Understanding X Bar R statistical process control chart

*Afternoon tea break*

### 3. XmR Charts

- ▶ Developing, applications and interpretation of the XmR statistical process control chart

0900-1030

1030-1045

1045-1300

1300-1400

1400-1530

1530-1545

1545-1700

Take The Next Step

**Day two**

**4. C Chart and u Charts**

- ▶ How to construct

*Morning tea break*

- ▶ When to use and interpretation of C chart and u statistical process control charts

**5. p and np Charts**

- ▶ How to construct

*Lunch*

- ▶ When to use and interpretation of p and np statistical process control charts

*Afternoon tea break*

**6. Plant Tour and Consultation**

- ▶ Plant tour and suggestion on Poka Yoke on the shop floor area using the concepts learned

0900-1030

1030-1045

1045-1300

1300-1400

1400-1530

1530-1545

1545-1700

Take The Next Step