

## **Theem Industry Ready Quality Training Centre** **(TIRQTC) - Empowers Your Employability**

### **Aim:**

To produce Industry Ready Quality Control and Quality Assurance Engineers along with their Engineering Graduation, a School Finishing initiation to satiate Industry Demands.

### **Objectives:**

- Producing Industry Ready Quality Control and Quality Assurance Engineers
- Imparting adequate skills and practice budding engineers in making
- Instilling confidence and empowering engineers to challenge the Quality Control jobs
- Providing knowledge about Quality Standards and its practice at manufacturing level
- Creating awareness of Quality Practice
- Facilitating hands-on practice for identification of faults in Quality Control
- Analysing the product as per the drawing for preparing Quality Report
- Minimizing the scrap and waste

### **Introduction:**

Industry needs Ready Quality Engineers who can take the job responsibilities up immediately after passing out graduation. The industry is thirsty of fresh engineers with the quality control and assurance skills to develop their quality department and it tries to gain the training period and its cost. Theem Industry Ready Quality Training Centre planned to provide hands-on practice to make our students with good quality control and quality assurance skills to fulfill the need of the industry. The TIRQTC follows ISO 8402-1986 quality standard to give students the necessary education on Mechanical Measurement and Control, Metrology and Quality Engineering Subjects.

The training is designed to provide practice on actual industrial components with respective drawings, and industrial report writing on quality by thorough analysis of products. Through this training, students learn right from sampling, collecting data on the sample, and calculate the mean, median and standard deviation SQC methods. The state-of-art centre with industrial ambience provides students to get hands-on practice in the use and application of precision measurement tools, such as steel rule, tape measure, protractor, micrometre, height gauge, various callipers, dial indicators, profile projector, interferometer, roughness measuring instruments, various gauges (slip gauge, angle gauge, etc.) and other important instruments.

Students learn how these concepts relate to statistical sampling, tolerance and quality control. They are trained for writing quality assurance and control reports, and reading component drawings to draw inference through it. This practice develops proficiency in reading mechanical



drawings and selecting the proper tools/instruments for inspecting industrial components/objects/parts. Finally, students gain adequate knowledge and skill in performing measurements to build their confidence for challenging the industry needed quality professionals.

### **Methodology:**

By Modular, Systematic Training and Hands-on Practice in -

- Understanding of industrial objects/components and its measurement procedures
- Understanding and Analysing industrial objects/components through drawings/sketches
  - About machining process
  - About dimensions
  - About fits and tolerance
- Selection of measuring instruments and calibration.
- Understanding of repeatability and reproducibility, and its co-relation in precision and interchangeable production
- Study about quality check through
  - Gauges, Callipers, etc.
- Accomplish the quality measurements using measuring instruments and provide quality assurances
- Preparing quality control and quality assurance report

### **Outcomes:**

- Able to read drawing/sketches
- Able to select instrument for quality check and perform statistical analysis and draw the inference.
- Able to write quality control/assurance reports

Theem Industry Ready Quality Training Centre guides students in performing quality domains and enriching them with the quality skills required in various job profiles and various industries.



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