Manufacturing Technology Training
An IMTMA initiative

Supervisory Controls and Data Acquisition System
Date : 6 to 7 November, 2025
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

We have been listening, talking, seeing about SCADA system in any Engineering, Manufacturing, Process industry. You might have come across a computer SCREEN showing, displaying some process parameters in such industries. You might have heard “we have SCADA system and our process is controlled through SCADA”.

So, Why and What is SCADA?

Every process needs 4 M i.e. Material, Man, Machine and Method. When all put together to get Output, we need to have a stringent control. There are many parameters which is contributing this Output, all these parameters need to be precisely controlled. As such, we need to have a system and SCADA serves our purpose very well.

SCADA is a Quality tool which helps to program all process parameters and store it as a “Recipe”. We can have a Number of Recipes programed and stored for easy retrieval. We have to just select the respective recipe and run the process, which controls all output impacting parameters very rigidly. So also, it is capturing all live data of “Actuals Process” and display it in graphical form or excel sheet.

So, it is very much imperative to know about SCADA system principle, it’s Requirement, Types, Functioning, Areas in which it can be used.

At the same time, we are going to learn about its Proactive use, some examples, Benefits of SCADA, how it helps to reduce Rework and Rejection and Improves Quality of a process, Machine, Furnace, Assembly line, and in turn, improve overall Quality standard of an organization.

Lastly, we will see Limitations of SCADA system. We are also going to its importance from CQI standard perspective.

FOCUS AREAS

- What is process? Understanding Input, Process and Output.
- What is influence of Process Controlling Parameters?
- Recording Process Parameters – History and Overview.
- Why recording – Importance and rise of SCADA concept.
- Types of SCADA.
- Working Principle of SCADA.
- Roll of PLC and SCADA.
- What is a recipe – Importance, storage, retrieval
- Areas of Usages – Manufacturing, Engineering, Process, etc.
- Examples of SCADA wrt to output, its interpretations.
- Benefits, Advantages
- Limitations.
- Future of SCADA.

Exercises:

- Selection of input
- Example to prove it is a Proactive Tool.

KEY TAKE AWAYS

- Working of SCADA.
- Its vast usage, Corelation with output.
- Why it is a Proactive Tool.
- Roll of SCADA in organization.

PARTICIPATION FEE

Rs. 10450/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 415/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

Freshers, GETs, First line engineers from Manufacturing functions – Production, Engineering, Quality, Maintenance, NPD, Business Excellence, Purchase, PPC, Logistics, Etc.

FACULTY

This programme will be conducted by **Mr. Ajay Tare, is in the fields of Metals and Metallurgy, for the last 40 years.**

Mr. Ajay Tare, is retired as COO from a very large Commercial Heat Treaters and handled positions as VP Operations, Sr. Manager, Operations Managers, QA Head in various prestigious companies like Bajaj Auto ltd, Mahindra and Mahindra Ltd, Eicher Good Earth Ltd, Nagpur Tools and Avdhoot Technocrats. His experience in all the portfolios of Metallurgical Engineering; R & D, Operations, Quality, Manufacturing Engineering, NPD, Business Excellence.

He is a Metallurgical Engineer from Nagpur and also completed Post Graduate Diploma in Quality Management, PGDQM, from prestigious Mahindra Institute of Quality. He is Six-Sigma Green Belt professional. On management side, he has successfully completed Harvard Manage Mentor, HMM, by HB School. Since he is a Industrial Trainer he has passed “Train the Trainer” by Dale Carnegie Training Centre.

A very versatile experience of processing all types of ferrous materials like Case Hardening Steels, HSS, HDS, HCHCr, Stainless Steels, Bearing Steels, Spring steels, Tool steels, Boron steels and non-ferrous materials like Aluminium, Copper, Brass, Bronz, Magnesium alloys.

He is well conversant with Processing of parts of defence, mining, earth moving equipment, automobile, tractor, Industry and their requirements.

Currently, he is associated with prestigious organisation for Training and Teaching and working as a “Professional Consultant” for many companies, including MNCs.

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.