Digital Manufacturing Professionals

Automation and Digitalisation

- **Current Scenario**
- **Impact of Automation**
- **Challenges**
- **How to address Challenges**

Receipt of Material & Storage

Current System: - Manual Process

Expectations:- Automation by inbuilt de-dusting and Barcoding for material movement.

Benefits: - Reduction of Multiple Handling, Time reducing, No chance for mix-up.

Challenge:- Awareness , Delay in operation, inaccuracy.

Counter Measure:- Trainings to cross functional Teams, User friendly soft ware.

Production

Current System: - Manual Process

Expectations:- HMI introduction, Process Capability, Preventive Maintenance

Benefits: - No Failures – more accuracy, Increase in productivity, Reduction in rejection trends, Traceability.

Challenge:- Awareness, User friendly software.

Counter Measure:- Trainings to cross functional Teams, Cost effectiveness in soft ware.

Packaging

Current System: - Manual and semi-automatic Process

Expectations:- Vision Camera with check-weigher for online monitoring, Control on labelling, Conveyors for products transfer up to warehouse and up to loading, Safety control.

Benefits: - No Failures – more accuracy, Increase in productivity, Reduction in rejection trends, Traceability.

Challenge:- Technology adoption.

Counter Measure:- Trainings to cross functional Teams, User friendly soft ware.

General

Utilities:- Automated HVAC, Water system management, Energy Management

Alert :- System for calibration, Re-qualification and PM schedule.

Use of Digital Tools:- AI, Machine Learning, IOT, Robotics, Cloud computing with cyber security measures.

Planning, phase-wise implementation and finally integrated manufacturing system with Management commitment.