



# MAINTENANCE ENGINEERING AND MANAGEMENT IN MANUFACTURING INDUSTRY



# What is the Importance of Maintenance in the Manufacturing Industry?

- Ensures smooth operations
- Reduces emergency repair costs
- Improves workforce and machine efficiency
- Ensures compliance with safety standards

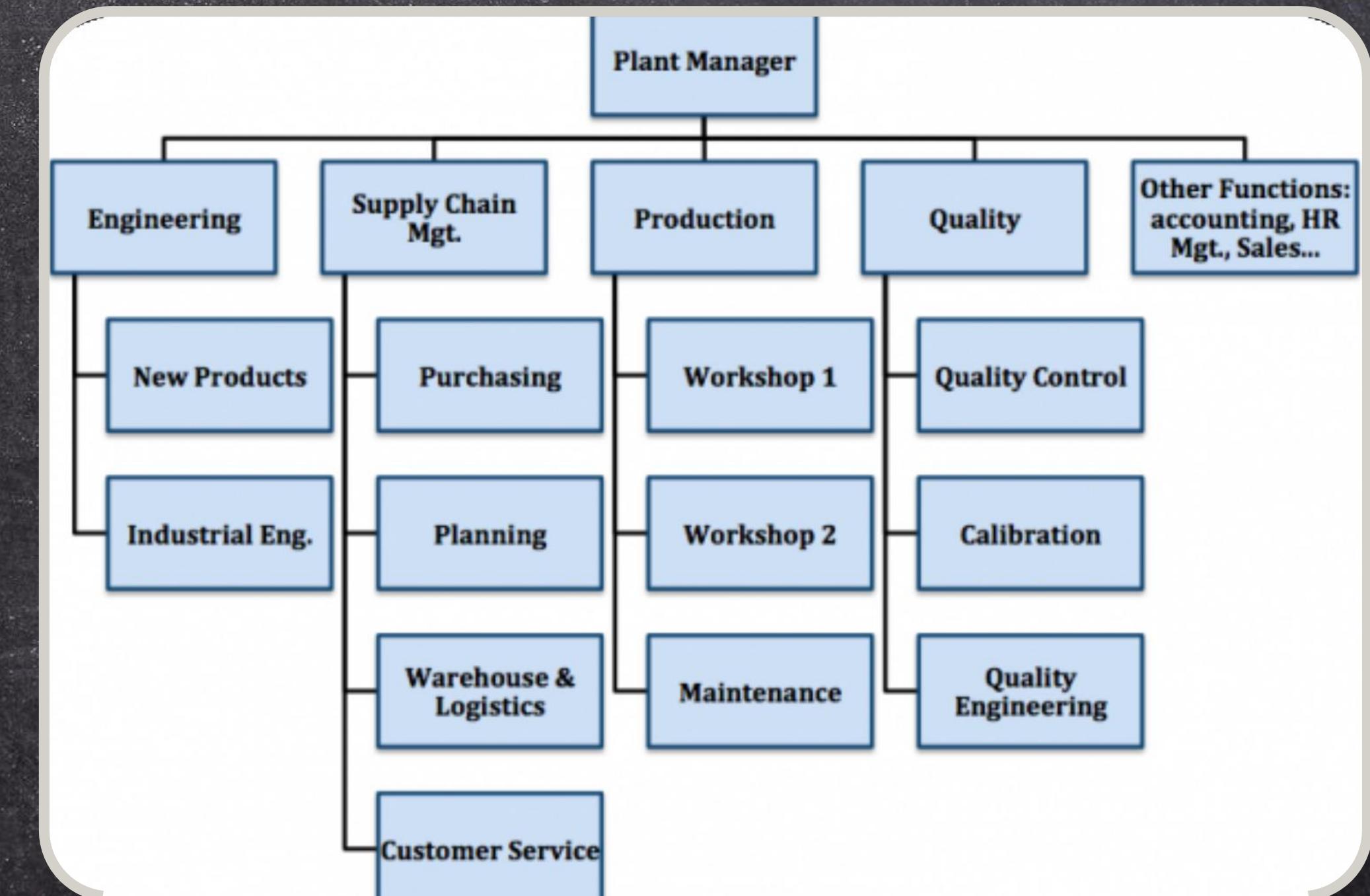
# WHAT ARE THE TYPES OF MAINTENANCE?

- Preventive Maintenance
- Predictive Maintenance
- Corrective Maintenance
- Breakdown Maintenance
- Total Productive Maintenance (TPM)



# Who is Responsible in Manufacturing & Maintenance?

- Production Manager
- Manufacturing Engineer
- Maintenance Engineer
- Quality Control Staff
- Supply Chain Manager
- Maintenance Technicians
- Machine Operators





# What is Computerized Maintenance Management System (CMMS)

- Automates Maintenance Tasks
- Improves Equipment Efficiency
- Real-Time Monitoring
- Enhances Compliance & Safety
- Used in Various Industries.

# WHAT is the Future of Maintenance Management in Manufacturing Industry?

- AI & Machine Learning
- IoT & Sensor
- Predictive & Preventive Maintenance
- CMMS (Cloud-Based)
- Automation & Robotics
- Digital Twin
- Big Data & Cloud Computing



# CNC Process in Manufacturing



# Conclusion

- Efficient Maintenance
- Evolving Strategies
- Technology Integration
- Industrial Impact
- Future Ready

