Emerging Business

Total Productive Maintenance - TPM

Curriculum

Program Outline :

Module 1: Fundamentals of Total Productive Maintenance - TPM

1. **Autonomous Maintenance (Jishu Hozen)**

   o   Empower operators to take responsibility for the basic maintenance of their equipment.

2. **Planned Maintenance**

   o   Schedule maintenance activities to prevent unexpected equipment failures.

3. **Quality Maintenance**

   o   Maintain equipment in a way that ensures products are manufactured correctly the first time

4. **Early Equipment Management**

   o   Design and install equipment that is easy to maintain and operate.

Module 2: Advanced Total Productive Maintenance - TPM

5. **Predictive Maintenance (PdM)**

   o   Use data analysis and monitoring tools to predict equipment failures before they occur.

6. **Condition Monitoring**

   o Continuously monitor equipment conditions to ensure optimal performance.

7. **Root Cause Analysis (RCA)**

   o Enhance real-time visibility and tracking of goods.

8. **Advanced Data Analytics**

   o Gain insights from large datasets to improve maintenance decisions.

9. **Digital Twin Technology**

   o Create virtual replicas of physical equipment to simulate and analyze performance.

Module 3: Practical Applications

9. **Total Productive Maintenance - TPM   Project Development**

   o Developing and implementing Total Productive Maintenance - TPM projects.

10. **AI Applications in Total Productive Maintenance - TPM**

    o Enhancing Total Productive Maintenance - TPM   solutions with AI.

11. **Data Analysis and Visualization**

    o Analyzing Total Productive Maintenance - TPM   data and visualizing results.

12. **Business Intelligence Applications**

    o Using Total Productive Maintenance - TPM   data for decision making.

Module 4: Capstone Project

13. **Integration of Learned Skills**

    o Apply tools and techniques to real-world Total Productive Maintenance - TPM .

14. **Advanced Total Productive Maintenance - TPM   Systems**

    o Developing complex Total Productive Maintenance - TPM   systems.

15. **Cloud Data Management**

   o Utilizing cloud platforms for scalable Total Productive Maintenance - TPM solutions.

16. **AI for Total Productive Maintenance - TPM**

   o Implementing AI solutions in Total Productive Maintenance - TPM   .

Elective Modules

17. **Data Ethics and Privacy**

   o Ethical considerations, privacy laws, compliance strategies.

18. **Predictive Analytics with Data Management**

   o Building and validating predictive models.

19. **Total Productive Maintenance - TPM   Project Management**

   o Leading Total Productive Maintenance - TPM   projects, ensuring successful delivery.

20. **Total Productive Maintenance - TPM   for Smart Cities**

   o Developing Total Productive Maintenance - TPM   solutions for smart city applications.

Websites:

- https://chools.in/
- https://ramaqchools.com/
- https://www.choolsgroup.com/