Emerging Business

Total Lean Operations Management - Enterprise Supply Chain Program

<u>Curriculum</u>

Module 1: Fundamentals of Total Lean Operations Management - Enterprise Supply Chain Program

1. **Value Stream Mapping (VSM)**

   o A visual tool used to map out all the steps involved in delivering a product or service from start to finish.

2. **Lean Principles**

   o Focusing on what the customer values and eliminating anything that does not add value.   .

3. **Just-In-Time (JIT) Production**

   o A production strategy that strives to improve a business's return on investment by reducing in-process inventory and associated carrying costs

4. **Total Quality Management (TQM)**

   o A management approach to long-term success through customer satisfaction.

Module 2: Advanced Total Lean Operations Management - Enterprise Supply Chain Program

5. **Advanced Predictive Maintenance (PdM)**

   o Machine Learning and AI Utilizing machine learning algorithms and AI to predict equipment failures more accurately.

6. **Digital Twins**

   o Real-Time Monitoring Creating digital twins of physical assets to monitor their performance in real-time.

7. **Reliability-Centered Maintenance (RCM)**

   o Comprehensive Approach Adopting a holistic approach to maintenance that focuses on preserving system functions.

8. **Condition-Based Maintenance (CBM)**

   o Continuous Monitoring Implementing continuous monitoring systems to track equipment conditions.

Module 3: Practical Applications

9. **Total Lean Operations Management - Enterprise Supply Chain Program Project Development**

   o Developing and implementing Total Lean Operations Management - Enterprise Supply Chain Program   projects.

10. **AI Applications in Total Lean Operations Management - Enterprise Supply Chain Program**

    o Enhancing Total Lean Operations Management - Enterprise Supply Chain Program   solutions with AI.

11. **Data Analysis and Visualization**

    o Analyzing Total Lean Operations Management - Enterprise Supply Chain Program   data and visualizing results.

12. **Business Intelligence Applications**

    o Using Total Lean Operations Management - Enterprise Supply Chain Program data for decision making.

Module 4: Capstone Project

13. **Integration of Learned Skills**

    o Apply tools and techniques to real-world Total Lean Operations Management - Enterprise Supply Chain Program   .

14. **Advanced Total Lean Operations Management - Enterprise Supply Chain Program   Systems**

   o Developing complex Total Lean Operations Management - Enterprise Supply Chain Program   systems.

15. **Cloud Data Management**

   o Utilizing cloud platforms for scalable Total Lean Operations Management - Enterprise Supply Chain Program   solutions.

16. **AI for Total Lean Operations Management - Enterprise Supply Chain Program**

   o Implementing AI solutions in Total Lean Operations Management - Enterprise Supply Chain Program   .

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 Lean Operations Management - Enterprise Supply Chain Program Project Management**

   o Leading Total Lean Operations Management - Enterprise Supply Chain Program   projects, ensuring successful delivery.

20. **Total Lean Operations Management - Enterprise Supply Chain Program   for Smart Cities**

   o Developing Total Lean Operations Management - Enterprise Supply Chain Program   solutions for smart city applications.

Websites:

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