

“Introduction to Industry 4.0” Training Program

Introduction

Industries, all over the globe are getting ready for the fourth revolution, INDUSTRY 4.0. This includes the key technologies and concepts like Collection of real time data, organizing data, analyze and make analyzed data available for decision support. This requires the strong knowledge of sensors, transducers, embedded system, protocols and cloud concepts and services, Mobile Application, Big data analytics, protocols etc. Industry 4.0 approach will have a phenomenal impact on the business models as well as on the skillset requirements of people. Industry 4.0 is a transition and needs change management from top floor to shop floor. A combination of professional competencies, a collection of technical knowledge, skills and abilities, combined with interpersonal behaviors and qualities and most importantly being a flexible, lifelong learner is the need of the hour.

Course Features

This course introduces participants to the concept and goals of Industry 4.0, the different pillars of Industry 4.0, design and implementation, Cyber Physical systems, Interoperability, Virtualization, Decentralization, Real-Time Capability, Service orientation and Modularity and develops clear understanding of need for change management issues. A step by step guide is provided to make implementation easy. This certificate course includes use cases discussion, participative case study analysis.

Course Contents

Overview of industry 4.0

- Evolution of Industry 4.0
- Understanding the echo systems
- Theme of Industry 4.0 and driving factors, Goals of Industry 4.0
- Restructuring & integration
- Future of automated manufacturing- cyber physical systems, smart factories, IIOT
- Going Digital -Leadership and Management Challenges, Competencies for Industry 4.0, Developing the road map
- Case study and Impact of Industry 4.0
- Need, advantages, limitations and methodology of Assessment, Skills for assessment,
- Industry 4.0 standards development & frameworks
- Moving ahead with implementation case study

Pre-requisites

Engineering graduates /MBA with Basic knowledge of either IT / Business processes / manufacturing processes

Registered & Head Office-

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Course Objectives

Main objective of the “Introduction to Industry 4.0” program is to develop Industry 4.0 awareness supported by use cases. The main aim is understand the overview of Industry 4.0 & its benefits to the industry to enhance business excellence. What is Industry 4.0, or the Industrial Internet of Things (IIoT)? How should manufacturers, both large and small, effectively initiate this complex transformation to Industry 4.0? Industry 4.0 Training course covers key concepts of future smart factories, the cyber-physical systems and physical processes within these factories and the virtualization techniques and intelligent decision making capabilities which would support managers in leading these initiatives. This course will orient participants about the different industrial revolutions, explain the different Automation Systems concepts for various sectors from the Industry 4.0 perspective. The program includes -

- Features of Industry 4.0 & key pillars,
- Competencies for Industry 4.0, future trends,
- Need for assessment audit & different processes, Use cases

This will enable participants to implement concepts learnt, relate to their organization.

This 2 day program will ensure clear understanding of basic theme of Industry 4.0 & introduce to the future trends. The participants will get clear idea about basic principles, benefits and challenges of Industry 4.0 at the end of the course.

Who should attend?

All graduate engineers, practicing engineers, IT professionals, Team leaders, Top management, Shop floor /production engineers HR, Marketing, and Maintenance professionals. This is a generic program for awareness.

Issue of Certificate

Certificate of participation is issued to the participants

Duration: 2 Days