



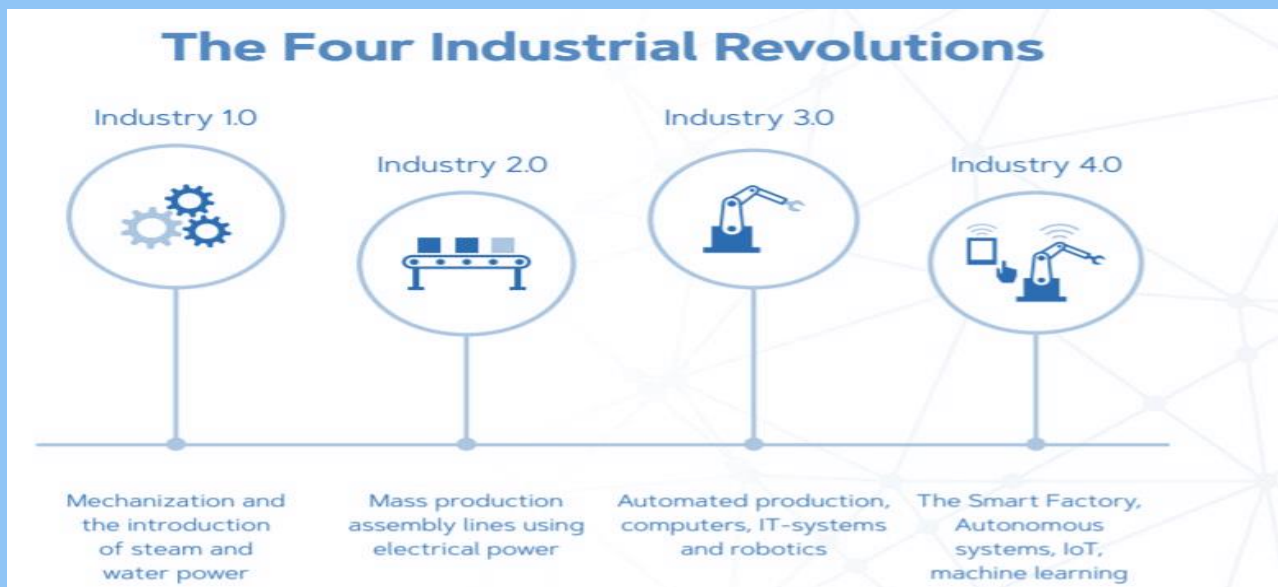
National Academy of Construction
(A Society under Govt. of Telangana)

Executive Development On -line Programme

On

INDUSTRY 4.0

16 – 19 Jan. 2023



INTRODUCTION

Industry 4.0 is a name given to the current trend of automation and data exchange in manufacturing technologies. It includes cyber-physical systems, the Internet of things (IoT), cloud computing and cognitive computing. Industry 4.0 is commonly referred to as the fourth industrial revolution.

Industry 4.0 fosters what has been called a "smart factory". Within modular structured smart factories, cyber-physical systems monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things (IoT), cyber-physical systems communicate and cooperate with each other and with humans in real-time both internally and across organizational services offered and used by participants of the value chain.

ENABLING OBJECTIVES

- Understand Industry 4.0 components like Automation, Data Exchanges, Cloud, Cyber-physical systems, Robots, AI, Big Data, Deep Machine Learning, Internet of Things
- List key requirements for qualifying a factory or system as Industry 4.0
- Explore Impact of Lean manufacturing, Cloud Computing, Cyber Security, IoT etc
- Strategize change management plan to support Industry 4.0 and innovation
- Become aware of data security issues and IT security principles.

COVERAGE

- Brief history of global industrial revolutions & emergence of Industry 4.0
- Demystifying Industry 4.0
- Leading Industry 4.0
- Leadership and management challenges of Industry 4.
- Aligning Industry 4.0 and Strategies
- Design Principles of Industry 4.0
- Automation Pyramid and new Business Models in Industry 4.0
- Building Blocks of Industry 4.0 – Cyber Physical Systems
- Competencies for Industry 4.0
- Benefits of Industry 4.0
- The cyber-physical system and IoT
- Design principles of Industry 4.0

METHODOLOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The faculty will act as provocateurs and resource.

WHO SHOULD ATTEND?

The program designed for users with a common goal to learn more about Industry 4.0. The goal is to educate and prepare leaders from the Manufacturing industry for the digital transformation journey ahead.

- Automation solution providers.
- End users in manufacturing like automobile, consumer durables, pharma, process industries.
- R &D professionals, production, designers, innovators, manufacturing managers, quality & process improvement professionals.
- Ideally, CFT (Cross Functional Team) from the same organisation including production, supply chain, project, planning, product development and operations.
- Digital Transformation personnel across all enterprise levels and functions

- Engineers & Managers from all Functions -Engineering / Manufacturing / Business Excellence / Administration /Materials Management / Planning / Maintenance & Outsourcing from all Government, Public and Private sector organizations. Professionals seeking up-to-date knowledge of the methods, principles and practice the latest trends in technology.
- Leaders from the Manufacturing Industry and Manufacturing & Supply Chain personnel
- Factory of the Future visionaries and Pioneers in the field of Industrial Internet of Things.

PROGRAMME VENUE, DATES & TIMINGS

Dates: 16 – 19 January, 2023 (4 Days)

Timings: On the first day Registration will commence at 0930 hrs. On all other days the programme timings will be from 1000 - 1700 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

Sri. D. Sheshadri, Director, EDP Trainings, NAC

COURSE FEE

Virtual: Rs.13,500/- + 18% GST per participant. Fee includes course material.

MODE OF PAYMENT

Programme fee is to be paid in favor of “**Director General, National Academy of Construction (NAC), Hyderabad**” in the form of demand draft / cheque payable at Hyderabad.

Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to **DG,National Academy Of Construction-Hyderabad - SB A/c No. 62422229281with SBI, Madhapur- 500 081, IFSC Code SBIN0021162, GST No. 36AAAANo794M1Z8.**

While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

REGISTRATION

To register please send your nominations giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee and addressed to:

Director, EDP Trainings

NAC Campus, Cyberabad,
Kothaguda Post,
Hyderabad-500084

Direct Phone: (040) 23110839,

Fax: (040) 23111997, **Mobile:** 9866114616.

Email:sheshadri@nac.edu.in /

corporatequality@nac.edu.in

Website:[www.https://nac.edu.in](https://nac.edu.in)

Welcome to National Academy of Construction

National Academy of Construction (NAC) was established on the joint initiative of construction industry and State Government in the year 1998 as a “Society” and incorporated as “Public Charitable” institution. It is managed by a Governing board with the Hon’ble Chief-Minister as Chairman and Hon’ble Minister for Roads and Building, the Chief Secretary of Telangana State as Vice Chairman. NAC Headquarters is located in 46.46 acres of green campus in the IT Corridor in Hyderabad, Telangana. It has 2 Advanced Training Institutes at Hyderabad, Jagityal and several centres in the districts across Telangana State. NAC is a unique institution which is running a whole range of training programmes from the grass root level for the construction workers in skill formation/skill up-gradation to senior level engineers and architects in all respects of the construction technology, materials etc.

National Academy of Construction is an ISO 9001:2015 certified Institute and affiliated to Skill Council.

Accolades received

- CIDC Vishwakarma Award for the years 2016, 2018, 2019 and 2021 for Construction & Skill Development
- Golden Peacock National Training Award 2017 and 2019 for National Training
- Assocham Award 2019 in the category National Leadership Excellence Skill Development / Vocational Training.
- Assocham Award 2018, 2019 (Gold Winner) and 2022 for Best Institute –Placement.

Infrastructure

- The facilities at the NAC campus consists of Auditorium, Seminar Halls, Class Rooms, Board Rooms, NAC Residency, Parking area under the Display Centre and Canteen. Well-developed Information Centre and Internet facilities are available to the participants.
- NAC campus is centrally located near to Hitec City, HiTech city MMTS station & Metro station.
- NAC is located close to major Shopping-malls, Hitex and other convention & recreational centers etc.