



About the Course

Formwork is a significant aspect of the construction industry in developed nations. It has significantly improved the standards of the construction industry. This unique course is a tailor-made course curated by the Subject Matter Experts of L&T, which provides the basic concepts and types of formwork, key selection criteria for formwork, different systems and materials adopted in construction and their technological advantages over the traditional formwork systems. The key learnings of this course would be the recent advancements in the formwork systems for vertical and horizontal applications, sequence of assembling and dismantling formwork, real-world examples, videos and images of formwork from construction sites, modular and special formwork, scaffolding systems and industry practices. This course will help the learners to build their expertise and knowledge to excel in the construction industry.



Key Topics

- ▶ Types of formwork
- ▶ Codes & standards
- ▶ Formwork planning & monitoring
- ▶ Analysis, design of formwork systems
- ▶ Detailed drawing of formwork systems
- ▶ Bill of quantities
- ▶ Formwork failures & remedies



Course Objectives

The objective of the course is:

- ▶ To select the appropriate formwork system
- ▶ To design the formwork system
- ▶ To compute the bill of quantity for the formwork system



- ▶ To incorporate safer design and construction aspects including assembling and dismantling to prevent formwork failures
- ▶ To comprehend plan, layout and detailed drawing for formwork systems

Learning Outcomes

On successful completion of the course, the learners will be able to:

- ▶ Analyze the project, and decide appropriate formwork materials and suitable formwork system
- ▶ Design formwork systems as per Industrial requirement
- ▶ Estimate the bill of quantity and optimize the formwork cost
- ▶ Prepare the layout and detailed drawing for the formwork system