CAREER HUNT

METRO RAIL TRANSPORTATION DESIGN AND CONSTRUCTION



Course Objective

- To introduce the core concepts of planning, systems and procedures, structural analysis, and design of underground and elevated metros
- To impart the concepts about the various types of construction methodologies adopted in the metro industry
- To acquire knowledge on design of Underground and elevated metro stations
- To enable the learners to involve in engineering works related to Metro planning and construction
- Course is offered by L & T Edutech

Key Topics

- Transit oriented development
- Planning of Metros
- MEP systems in Metros
- Contracts and Quality
- Elevated stations and viaducts
- Underground stations and tunnels
- Earth retaining systems
- Future trends in transportation
- Analysis and design of stations (STAAD.Pro) and diaphragm walls

Learning Outcomes

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

- •Create the basic layout of elevated and underground metro stations as per laid down codes and regulations
- •Interpret design recommendations, Modelling and analysis using STAAD Pro and Codes of Practice for Elevated and Underground Metros
- •Design the earth retaining systems for the excavations of underground stations
- •Select suitable construction practices for underground and elevated metros
- •Comprehend the MEP systems used in metros and latest trends in transportation systems