Formation Robot Millennium

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SII-411 **3 Days (Hours)**

Description

Robot Millennium is a structural design and analysis software used primarily in the field of civil engineering and construction

Who is this training for ?

For whom

- Civil and structural engineers, as well as construction professionals involved in the design and analysis of structures.
- Civil engineering and architecture students interested in learning structural design and analysis tools used in industry.
- Anyone working in the construction field and wishing to acquire skills in the use of specialist software for the design and analysis of structures.

Prerequisites

- Basic knowledge of civil engineering, including structural design and analysis concepts.
- Familiarity with structural modeling and analysis software is a plus, but not necessarily required.
- Understanding of the fundamental principles of materials engineering and loads applied to structures.

Training objectives

- Allow participants to master the use of the software to design and model Analyze and effectively size civil engineering structures Apply engineering principles and appropriate safety standards while using the software to solve complex engineering problems

Training program

Introduction au logiciel

- Overview of the basic functionality of Robot Millennium, including user interface, structure modeling, loads and load combinations.

Modélisation des structures

- Learning modeling techniques to represent different shapes of structures, such as buildings, bridges, steel structures, concrete

Application des charges

- Understand how to correctly apply gravity loads, wind loads, seismic loads, and other relevant loads to modeled structures.

Analyse des structures

- Using Robot Millennium's analysis tools to evaluate the stability, strength and performance of structures under various load and stress conditions.

Optimisation et dimensionnement

- Techniques for optimizing the design of structures by adjusting design parameters and evaluating the performance of structural elements.

Rapports et présentations

- Generation of reports and visualizations to communicate analysis results clearly and effectively to project stakeholders.