multisoft
Systems

RISA 3D Foundation & Connection Training

COURSE CONTENT

GET IN TOUCH

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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The RISA 3D Foundation & Connection Training by Multisoft Systems is designed to equip engineers and designers with the skills needed to efficiently model, analyze, and design structures using RISA 3D. This training covers foundational concepts, connection design, and advanced structural analysis techniques to enhance accuracy and efficiency in engineering projects.

Module 1: RISA 3D

1.1 Risa 3D Introduction

- ✓ RISA-3D Overview
- ✓ Installation
- ✓ Starting RISA-3D
- ✓ Menus
- ✓ Toolbars

1.2 Modeling

- ✓ Create a New Model
- ✓ Members
- ✓ Material Properties
- ✓ Design Rules – Size / UC
- ✓ Boundary Conditions

1.3 Modify

- ✓ Modify Members
- ✓ Drawing Wall Panels and Additional Framing
- ✓ Drawing Plates
- ✓ Sub-meshing Plates

1.4 Loading

- ✓ Area Loads
- ✓ Surface Loads
- ✓ Distributed Loads
- ✓ Basic Load Case Spreadsheet
- ✓ Self-weight
- ✓ Load Categories
- ✓ Load Combinations

1.5 Solving & Results

- ✓ Solving the Model
- ✓ Graphic Results
- ✓ Batch Solution
- ✓ Envelope Solution
- ✓ Optimizing Member Sizes

1.6 Dynamic Analysis

- ✓ Dynamic Solution
- ✓ Frequencies and Mode Shapes
- ✓ Response Spectra Analysis

1.7 Interoperability

- ✓ RISA-Revit Structure Link
- ✓ CIS/2 Translator
- ✓ RISA-3D & CAD

Module 2: RISA Foundation Main Design

2.1 Create Sub Structure

- ✓ Isolated Footing Design
- ✓ Isolated Footing Design with Strap
- ✓ Combined Footing Design
- ✓ Spread Footing Design
- ✓ Pile Cap Design
- ✓ Mat Foundation Design
- ✓ Retaining Wall Design

Module 3: Connection Designs

3.1 Shear Connection

- ✓ Beam/Column
- ✓ Column splice
- ✓ Beam Splice

3.2Moment Connection

- ✓ Beam/Column
- ✓ Beam/Girder
- ✓ Column splice
- ✓ Beam Splice

3.3 Truss Connection

- ✓ HSS

3.4 Brace Connection

- ✓ Vertical/Diagonal

3.5 Base Plate Connection

- ✓ Column Base Plate
- ✓ Brace to Column Base Plate