



## Description:

The course, Dynamics Basics in RISA-3D, is 1.5 hours of on-demand training that introduces the basic knowledge of dynamics in RISA-3D with an emphasis on determining the natural period and frequencies (eigensolution) and understanding mode shapes. This interactive training is designed to walk users through the steps required to understand dynamics in RISA-3D with a focus on modal analysis. This training does not cover Response Spectra Analysis or Time History Analysis. Future subsequent training will cover these topics and the applications related to seismic design, vibration, and blast loading.

Learning Type: Virtual (On-Demand)

Price: \$125

## Topics Covered:

### Dynamics Basics

- SDOF Example
- Period & Frequency
- Eigensolutions
- MDOF Example
- Self-Weight & Mass Considerations

### Modal Analysis

- Mode Shapes
- Modal Analysis Workflow within RISA-3D

### Mass Participation

- Achieving 90% - 100% Mass Participation
- How to Improve Participation
- Best Practices for Modeling Mass

### Troubleshooting

- Troubleshooting Local Modes
- Types of Solvers
- Standard vs. Accelerated vs. Ritz Vector

## Benefits of Attending:

- Refresher on Key Dynamics Topics
- Develop RISA-3D Dynamic Modeling Abilities
- Learn to Troubleshoot Common Issues

## What You Will Learn

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**Dynamics Basics**



**Modal Analysis**



**Troubleshooting Mass Participation**



**Types of Solvers**