

PROBABILISTIC SEISMIC HAZARDS ANALYSIS (PSHA) 2027

JANUARY - MAY (DAYS & TIMES TBA)

REGISTER

MEMBERS	\$2750
NONMEMBERS	\$3250

PART 1 - INTRODUCTION

- Class 1**
- Class Outline
 - Introduction to PSHA Concepts
- Class 2**
- Introduction to PSHA concepts (Cont.)
 - Probability Review
- Class 3**
- PSHA Mathematical Framework
- Class 4**
- Aleatory Variability and Epistemic Uncertainty
- Class 5**
- PSHA Software and Tools

PART 2 - STANDARD PSHA

- Class 6**
- Seismic Source Characterization: Faults
- Class 7**
- Seismic Source Characterization: Zones
- Class 8**
- Entering SSC Logic Trees into PSHA Software
- Class 9**
- Introduction to Ground-Motion Characterization

- Class 10**
- Entering GMC Logic Trees into PSHA Software
- Class 11**
- Hazard Results, Disaggregation, and Design Spectra
- Class 12**
- Conditional Mean Spectra and Conditional Spectra
- Class 13**
- Risk and Risk-Targeted Ground Motion

- Class 14**
- What Should Be Included in a PSHA Report

PART 3 - GROUND-MOTION MODELS

- Class 15**
- Median GMM - Scaling from Point-Source Models and Constraints from Finite-Source Simulations
- Class 16**
- Median GMM – Model Complexities (Regionalization, HW Effects, NL Site Effects)
- Class 17**
- Components of Aleatory Variability for GM
- Class 18**
- Near-Fault Effects (Directivity, Velocity Pulses)

- Class 19**
- Evaluation of Alternative GMMs (Logic Trees)
- Class 20**
- Secondary Ground-Motion Parameters
- Class 21**
- Selection and Modification of Design Time Histories
- Class 22**
- Selection and Modification of Design Time Histories

PART 4 - ADVANCED TOPICS

- Class 23**
- Probabilistic Fault Displacement Hazard Analysis (PFDHA)
- Class 24**
- Non-Ergodic PSHA (Site)
- Class 25**
- Non-Ergodic PSHA (Source and Path)
- Class 26**
- Review
- Class 27**
- Review



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***REGISTER FOR THE 14-WEEK COURSE BEFORE WE SELL OUT!**