



Spring Design 301 Springs – Fatigue Training Program Class at SpringWorld

**Tuesday, Oct. 1, 2024
10 a.m. – 2:30 p.m. (CDT)**

The Spring Manufacturers Institute (SMI) will offer our spring design training class for Springs - Fatigue on Tuesday, Oct. 1, 2024, from 10:00am – 2:30pm CDT. It will be held at the Donald E. Stephens Convention & Conference Center in Rosemont, Illinois.

The course will build upon the principles taught in the basic courses, 201 Compression Spring Design, 202 Extension Spring Design, and 203 Torsion Spring Design. It is recommended that students complete the 200 level courses or have equivalent knowledge before signing up for this course.

The course is designed as a focused, real-world spring design training session.

Students will learn:

- The causes and mechanisms of failure in springs
- The definition of fatigue and three stage fatigue failure process
- The four key factors of fatigue
- Fatigue design considerations for a successful project utilizing the SMI seven step spring design process
- Goodman diagram interpretation and how to input engineering fatigue test data into the ASD7 software
- Fatigue failure analysis methodology overview

Students will have the opportunity to seek opinions and clarification of any fatigue-related issues which they may have.

This class will benefit the student by increasing their knowledge of fatigue of springs, and their company by having an SMI-trained associate as part of their team.

The training course instructor is Richard Gordon, Technical Director at SMI. Rick has many years of experience in the wire industry and SMI, conducting failure analysis projects on springs. He currently oversees SMI's failure analysis program.

The cost for the program is \$295 for SMI members and \$425 for nonmembers, and includes lunch, drinks and snacks.

SMI will provide an ASD7 30-day license to each registered participant.



301 Springs – Fatigue Training Class at SpringWorld
Class Registration Form

Tuesday, Oct. 1, 2024
10:00am – 2:30pm CDT

Name: _____

Company: _____

Address: _____

City: _____ State/Province: _____ Postal Code: _____

E-mail for all class information: _____

Phone: _____

Credit Card:

Please charge my credit card Visa MasterCard American Express

Card #: _____ Exp Date: _____

Card holder's name (please print): _____

Card holder's signature (required): _____

Per student: \$295.00 per SMI member

\$425.00 per non-member: Additional participants from the same company - \$375.00.

Students must bring their own laptop computer. Class will be held in Room 7, Level 1 of the Donald E. Stephens Convention & Conference Center in Rosemont, Illinois and includes lunch, drinks and snacks.

Amount: _____

Name(s) and emails of attendees:

Email credit card information to: gaby@smihq.org

Questions? Contact Gaby at SMI at gaby@smihq.org

Upon registration, you will be provided with a set of class presentation slides. Completion certificates will also be available upon request.

Deadline: Registration and payment due by Monday, September 16, 2024. Seats are limited: Only the first 20 registrants will be accepted.