

Roulo Consulting Inc. Background

RCI has provided structural analysis consulting and training services to the aerospace and transportation industries for 14 years.

Aerospace Analysis Boot Camps for:



ROULO CONSULTING, INC
LEARN FROM THE PAST, LOOK TO THE FUTURE

Rocketry



Satellite



Military Aircraft and Weaponry



Railway / Commercial Products / Aviation



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LEARN FROM THE PAST, LOOK TO THE FUTURE

AEROSPACE ANALYSIS BOOT CAMP

MODELING PRIMARY STRUCTURES IN FEM

www.rouloconsulting.com



Instructor & RCI President

Roulo Consulting, Inc. (RCI) is an engineering consultancy founded by Eric Roulo specializing in structural mechanics, training, and project management. With a deep background in aerospace and defense contracting, we utilize the Pareto principle to focus on the 20% of the material that contributes to the majority (80%) of success. When consulting, we use these principles to provide fast and accurate early appraisals of designs and concepts. When training, the material is focused on just the need to know, day-to-day, practical execution, and 'what do you do on Monday' aspects of your job. We provide the framework, philosophy, templates, and tools to dramatically increase your teams effectiveness starting the day after our boot camps and training sessions. By combining our consulting and training services, we help our clients build great engineering teams while delivering your project on time and on budget.

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Agenda: 10 Major Topics

	Introduction and Preparation
Sec. 1	Preparing Your Problem for FEM
Sec. 2	Modeling Rules of Thumb and Recommendations
Sec. 3	Element Types and Size
Sec. 4	Model Organization
	Model Details
Sec. 5	Material Properties
Sec. 6	Modeling Struts, Bolted Joints, Holes, Lugs, Potted Inserts, Sandwich Panels, Welds, and Bonded Joints
	Lunch
Sec. 7	Modeling Composites, Fatigue, DaDT and Contact
	Model Verification (2 hr)
Sec. 8	Preprocessor and Solver Checks
	Post Processing
Sec. 9	Presenting Results Effectively
Sec. 10	Ultimate Analysis Approaches in FEM
	Open and Q&A

Networking event to follow Boot Camp

BOOT CAMP REGISTRATION

Early Bird Registration: \$895
Standard Registration: \$1,095

VISIT
www.rouloconsulting.com

Modeling Primary Structures in FEM

This intensive, one-day course is meant to provide the attendee with directly applicable tools to get their jobs done. The course emphasizes how to model common primary structural components with finite elements with the intent of generating structural margins for verification of the design. The course will begin with preparation of your problem for FEM and will have over twenty section describing how to prepare the finite element model, modeling all common primary structures, model verification, and how to best post process the results. Advanced topics include modeling for fatigue, DaDT, and ultimate analysis. Software is supplied to facilitate these task and is included with digital copies of the references. The primary focus is on modeling in NASTRAN, however the concepts are general and apply to all production, enterprise-class finite element packages.

REGISTER NOW!

Future Boot Camps, visit: www.rouloconsulting.com/accelerate