



CONSULTING SERVICES
IN FINITE ELEMENT ANALYSIS



TRAINING & MENTORING SERVICES

IN FINITE ELEMENT ANALYSIS

From quick focused training to ongoing expert mentoring, FEA Academy gives engineers and teams the skills, strategies, and support to deliver accurate and reliable simulations — every time.

Our training & mentoring solutions are suitable for **individuals and companies** looking to grow their FEA skills with confidence.



Led by Dominique Madier

25+ years of FEA expertise in aerospace & engineering

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Empower Your FEA Skills with Proven Expertise

At **FEA Academy**, we believe that mastering Finite Element Analysis is not just about learning theory — it's about gaining the practical skills, confidence, and guidance to solve real engineering challenges.

Whether you are an **individual engineer** seeking to sharpen your skills or a **company** looking to elevate your team's FEA capabilities, our Training and Mentoring Programs are designed to deliver measurable results.

Led by **Dominique Madier**, an FEA consultant with over 25 years of experience in structural analysis for leading aerospace and engineering organizations, we combine hands-on instruction, proven methodologies, and personalized support to help you excel.

Flexible Learning Formats

On-demand training and live mentoring sessions tailored to your schedule.

Software-Independent Methods

Focus on universal modeling techniques applicable to any FEA software.

Fixed-Price Options

Predictable costs for individuals and corporate teams alike.

Practical, Results-Driven

Reduce errors, speed up delivery, and build in-house FEA expertise.

Whether your goal is to reduce errors, speed up project delivery, or develop in-house expertise, FEA Academy is your trusted partner in building FEA excellence.

Option 1: FEA Trainings

Who Is This For?

Engineers involved in structural analysis projects who want to deepen their practical knowledge and skills in Finite Element Analysis (FEA), including linear static analysis, linear buckling analysis, modal analysis and nonlinear analysis.



Expand Your Career Opportunities

Learning FEA in detail permits you expanding your career opportunities and gives you an edge over other engineers who don't know the good modeling practices.



Improve Your Versatility

FEA is so flexible that it can be used in various applications. An engineer with very good knowledge of FEA is much more versatile than one who does not know it well. Since the modeling techniques are universal, mastering FEA will permit you to navigate various types of industries and work on diverse projects.












Join a Community

Your enrollment to the course will give you access to the "Practical Basic FEA" community. With this community, you will be able to share with your instructors but also with all the students enrolled in the course.

Key Benefits

- ✓ **Online, on-demand courses** for flexible learning
- ✓ **Practical FEA skills** for real-world applications
- ✓ **Universal modeling techniques** and best practices
- ✓ **Comprehensive coverage** of linear and nonlinear FEA methodologies
- ✓ **Ask your questions** in the discussions space and get answers from a specialist

What You Get in the FEA Academy Courses

 Practical FEA A complete program teaching you the universal FEA modeling techniques and offering the best practical methods, guidelines and examples.	 FEA Workflows To augment your learning experience, you will have access to software examples showing particular FEA workflows.	 Many Simple Examples All the presented modeling techniques are illustrated with simple examples to permit you understanding all the FEA concepts in detail.
 On-Demand Course Learn at your pace by watching the videos of the course. Access the virtual classroom 24/7 from everywhere, you just need an internet access.	 Unlimited Access You will have an unlimited access to the FEA Academy virtual classroom to revisit the lectures for your day-to-day work.	 Keep Track of Your Knowledge Use our PDF file containing 200+ questions related to each lecture. Also, test yourself to validate your knowledge by answering the quizzes after each lecture.
 Download the Slides Download all the slides of each lecture	 Geometric & Simulation Files Download the geometric files in Parasolid, Step and IGES formats as well as the simulation files of the examples (150+ files).	 Q&A During this course, your instructors will be available to answer your questions and will support you in order to help you building a strong FEA knowledge.

Practical Basic Finite Element Analysis Course

#BEYONDTHESOFTWARE

REGISTER NOW

FEA ACADEMY

PRACTICAL BASIC FINITE ELEMENT ANALYSIS

17 LECTURES | 14 FEA Workflows | Methods & Guidelines | 20 HOURS TOTAL

STREAMING Online On-Demand | Learn the Modeling Techniques

I'm Your Host
Dominique Madier

Expand your Career Opportunities
BY LEARNING FEA

Learn Modeling Techniques for Linear Static, Linear Buckling and Modal Analysis

You will learn all the FEA methods and guidelines illustrated with many examples.

- 17 online lectures covering 15 hours of training with methods, guidelines and examples
- 14 additional videos with examples showing particular FEA workflows in 5 hours
- 20 hours total of comprehensive content
- Linear Static Analysis, Linear Buckling Analysis, and Modal Analysis
- Watch the videos at your own pace
- Ask your questions in the discussions space

A complete program to learn and master the universal FEA modeling techniques that every engineer should know.

Download the complete curriculum [HERE](#)

Practical Nonlinear Finite Element Analysis Course

ON-DEMAND
#BEYONDTHE SOFTWARE
Because the Real World is Nonlinear
FEA ACADEMY

> REGISTER NOW

PRACTICAL **NONLINEAR** FINITE ELEMENT ANALYSIS

15 Lectures | 17 FEA Workflows | Methods & Guidelines | 12 Hours Total

STREAM ON DEMAND | LEARN AT YOUR OWN PACE

I'm Your Host
Dominique Madier

Elevate your knowledge of FEA
TO THE NEXT LEVEL

Learn Modeling Techniques for Nonlinear Analysis

You will learn all the FEA methods and guidelines illustrated with many examples.

- 15 online lectures covering 7 hours of training with methods, guidelines and examples
- 17 additional videos with examples showing particular FEA workflows in 5 hours
- 12 hours total of comprehensive content
- Geometric Nonlinearity, Material Nonlinearity, Boundary Nonlinearity
- Solver Methods (Newton-Raphson & Arc-Length Methods)
- Convergence Issues & Solution Strategy, Modeling Contacts, and more
- Watch the videos at your own pace

Download the complete curriculum [HERE](#)

Frequently Asked Questions

Q1 – What are the objectives of the FEA Academy courses?

- Provide the most effective practical methods and guidelines for developing and validating finite element models in solid mechanics and structural analysis.
- Equip engineers with the tools to create accurate and reliable models while avoiding common errors.

Q2 – What will FEA Academy deliver through these courses?

- Real, practical knowledge you can apply immediately to solve solid mechanics and structural problems using FEA.
- Focused on day-to-day engineering needs, ensuring relevance and direct applicability.

Q3 – What will these courses enable you to do?

- Confidently perform FEA analyses for your daily engineering tasks.
- Gain a deep understanding of FEA principles to trust and defend your results.

Q4 – What is the prerequisite to attend the courses?

- A solid general physics background.
- Recommended: university-level review of solid mechanics, statics, and strength of materials.

Q5 – Who should attend?

- Engineers aiming to transition into FEA for solid mechanics and structural analysis.
- Engineers seeking a refresher to strengthen their FEA knowledge.
- New graduates eager to learn industry applications of FEA in structural problem-solving.

Q6 – Which FEA software is required or used in the courses?

- No specific software required — courses are software-independent.
- Focus on universal modeling techniques essential for all structural engineers.
- Methods can be applied with any FEA software to produce accurate, reliable simulations.






Standard Pricing

Course	Price
Practical Basic Finite Element Analysis	US\$ 600 / student
Practical Nonlinear Finite Element Analysis	US\$ 600 / student
Bundle: Basic + Nonlinear FEA (Save 25%)	US\$ 900 / student



Regional Pricing

At FEA Academy, we believe that practical engineering education should be accessible to every engineer, regardless of location. That is why we offer purchasing-power-adjusted regional pricing across five regions — **South Asia & Eurasia, East & Southeast Asia, Latin America, Africa, and European Balkans** — covering **27 countries**. Prices below are in local currencies.

South Asia & Eurasia

Country	Basic FEA	Nonlinear FEA	Bundle (Save 25%)
 India	INR 14 000	INR 14 000	INR 20 000
 Bangladesh	BDT 20 000	BDT 20 000	BDT 35 000
 Pakistan	PKR 40 000	PKR 40 000	PKR 65 000
 Turkey	TRY 6 000	TRY 6 000	TRY 8 500
 Russia	RUB 15 000	RUB 15 000	RUB 25 000


East & Southeast Asia

Country	Basic FEA	Nonlinear FEA	Bundle (Save 25%)
 China	CNY 2 100	CNY 2 100	CNY 3 100
 Malaysia	MYR 800	MYR 800	MYR 1 300
 Philippines	PHP 11 500	PHP 11 500	PHP 18 500
 Thailand	THB 7 500	THB 7 500	THB 11 000

Latin America

Country	Basic FEA	Nonlinear FEA	Bundle (Save 25%)
 Argentina	ARS 200 000	ARS 200 000	ARS 300 000
 Brazil	BRL 1 300	BRL 1 300	BRL 1 800
 Chile	CLP 300 000	CLP 300 000	CLP 400 000
 Mexico	MXN 4 500	MXN 4 500	MXN 7 000

Africa

Country	Basic FEA	Nonlinear FEA	Bundle (Save 25%)
 Algeria	DZD 25 000	DZD 25 000	DZD 35 000
 Egypt	EGP 7 500	EGP 7 500	EGP 11 500
 Morocco	MAD 2 000	MAD 2 000	MAD 3 200
 South Africa	ZAR 4 000	ZAR 4 000	ZAR 6 000
 Tunisia	TND 550	TND 550	TND 850

European Balkans

Country	Basic FEA	Nonlinear FEA	Bundle (Save 25%)
 Albania	30 000 ALL	30 000 ALL	45 000 ALL
 Bosnia-Herzegovina	430 BAM	430 BAM	650 BAM
 Bulgaria	240 EUR	240 EUR	360 EUR
 Croatia	300 EUR	300 EUR	450 EUR
 Kosovo	230 EUR	230 EUR	345 EUR
 Montenegro	220 EUR	220 EUR	330 EUR
 North Macedonia	12 000 MKD	12 000 MKD	18 000 MKD
 Romania	1 250 RON	1 250 RON	1 875 RON
 Serbia	27 000 RSD	27 000 RSD	40 500 RSD

Regional prices based on Purchasing Power Parity (PPP). Standard US\$ pricing applies to all countries not listed above.

Option 2: Monthly Mentoring for Independent Engineers

Who Is This For?

Ideal for individuals requiring ongoing support with predictable costs. Best if you want consistent mentoring for a single engineer.

Key Benefits

- ✓ **Personalized Mentoring:** One-on-one support to improve FEA skills & best practices
- ✓ **Portfolio Creation:** Build a professional engineering analysis portfolio demonstrating your technical skills and real-world impact
- ✓ **Troubleshooting & Debugging:** Solve solver issues, convergence failures, or incorrect results
- ✓ **Simulation Review:** Remove doubts and gain confidence in your models
- ✓ **Weekly Sessions:** Live Zoom sessions with Dominique Madier, scheduled based on your needs
- ✓ **Continuous Support:** Mesh optimization, boundary conditions, solver settings, and more
- ✓ **Broad Analysis Coverage:** Linear Static, Linear Buckling, Modal, Nonlinear Static & Frequency Response Analysis
- ✓ **Hands-on Mentoring:** Improve efficiency and master universal, practical FEA techniques
- ✓ **Faster Turnaround:** Expert guidance to avoid costly mistakes and rework

With every package, you have full access to Dominique Madier for expert guidance and detailed review of your FEA analyses.

Frequently Asked Questions

Q1 – How are the weekly sessions structured?

Each session is scheduled via Zoom at a time that suits you. You set the agenda — whether it's reviewing a model, debugging convergence issues, or working through a new analysis approach. Sessions are hands-on and tailored entirely to your current projects and goals.

Q2 – Can I switch between Essentials and Expert+ plans?

Yes. You can upgrade from Essentials to Expert+ at any renewal point to add nonlinear and dynamic analysis support as your skills and project demands evolve.

Q3 – What is the minimum commitment for Monthly Mentoring?

A minimum of 3 months is required. FEA skill-building is cumulative — this commitment ensures you progress from initial guidance through to independent, confident analysis within a structured timeline.

Q4 – How does the portfolio creation work?

Throughout your mentoring engagement, Dominique helps you build a professional engineering analysis portfolio. This includes defining FEA projects, documenting your analyses with proper methodology, presenting results clearly, and demonstrating your technical judgment — a valuable asset for career advancement.

Q5 – What happens if I don't use all my hours in a given month?

Monthly hours are allocated per billing cycle and do not roll over. We recommend scheduling regular sessions to maintain momentum and get the most value from your plan.

Standard Pricing

Our mentoring is designed for long-term success. We require a 3-month minimum commitment to ensure meaningful progress and measurable results.

Plan	Hours/Month	Essentials	Expert+
		Linear Static Linear Buckling Modal Analysis	Essentials Plan + Nonlinear Analysis Dynamic Analysis
Core	5 hrs	US\$ 600 /month	US\$ 900 /month
Pro	10 hrs	US\$ 1,100 /month	US\$ 1,650 /month
Elite	15 hrs	US\$ 1,500 /month	US\$ 2,250 /month

Regional Pricing

At FEA Academy, we believe that practical engineering education should be accessible to every engineer, regardless of location. That is why we offer purchasing-power-adjusted regional pricing across five regions — **South Asia & Eurasia, East & Southeast Asia, Latin America, Africa, and European Balkans** — covering **27 countries**. Prices below are in local currencies.

South Asia & Eurasia

Country	Core		Pro		Elite	
	Essential 5h	Expert+ 5h	Essential 10h	Expert+ 10h	Essential 15h	Expert+ 15h
 India	INR 14,000	INR 21,500	INR 26,000	INR 38,000	INR 35,500	INR 52,000
 Bangladesh	BDT 22,000	BDT 33,500	BDT 40,000	BDT 61,000	BDT 55,000	BDT 82,500
 Pakistan	PKR 42,000	PKR 63,000	PKR 77,000	PKR 110,000	PKR 105,000	PKR 155,000
 Turkey	TRY 5,800	TRY 8,700	TRY 10,500	TRY 15,500	TRY 14,500	TRY 21,000
 Russia	RUB 15,000	RUB 23,000	RUB 27,500	RUB 42,000	RUB 38,000	RUB 57,000


East & Southeast Asia

Country	Core		Pro		Elite	
	Essential 5h	Expert+ 5h	Essential 10h	Expert+ 10h	Essential 15h	Expert+ 15h
 China	CNY 2,100	CNY 3,100	CNY 3,800	CNY 5,700	CNY 5,200	CNY 7,600
 Malaysia	MYR 800	MYR 1,300	MYR 1,500	MYR 2,300	MYR 2,100	MYR 3,200
 Philippines	PHP 11,500	PHP 18,500	PHP 21,000	PHP 32,500	PHP 29,500	PHP 45,000
 Thailand	THB 7,600	THB 11,000	THB 13,500	THB 20,500	THB 18,500	THB 28,000

Latin America

Country	Core		Pro		Elite	
	Essential 5h	Expert+ 5h	Essential 10h	Expert+ 10h	Essential 15h	Expert+ 15h
 Argentina	ARS 205,000	ARS 310,000	ARS 380,000	ARS 550,000	ARS 515,000	ARS 755,000
 Brazil	BRL 1,300	BRL 1,800	BRL 2,400	BRL 3,400	BRL 3,100	BRL 4,700
 Chile	CLP 280,000	CLP 395,000	CLP 485,000	CLP 740,000	CLP 670,000	CLP 1,000,000
 Mexico	MXN 4,500	MXN 6,800	MXN 8,100	MXN 12,500	MXN 11,500	MXN 17,000

Africa

Country	Core		Pro		Elite	
	Essential 5h	Expert+ 5h	Essential 10h	Expert+ 10h	Essential 15h	Expert+ 15h
 Algeria	DZD 23,000	DZD 34,000	DZD 40,500	DZD 61,000	DZD 57,500	DZD 84,500
 Egypt	EGP 7,600	EGP 11,500	EGP 14,000	EGP 20,500	EGP 19,000	EGP 28,000
 Morocco	MAD 2,000	MAD 3,200	MAD 3,900	MAD 5,700	MAD 5,200	MAD 7,700
 South Africa	ZAR 4,000	ZAR 6,200	ZAR 7,600	ZAR 11,000	ZAR 10,000	ZAR 15,000
 Tunisia	TND 550	TND 850	TND 1,000	TND 1,500	TND 1,400	TND 2,100

European Balkans

Country	Core		Pro		Elite	
	Essential 5h	Expert+ 5h	Essential 10h	Expert+ 10h	Essential 15h	Expert+ 15h
 Albania	30,000 ALL	45,000 ALL	55,000 ALL	82,500 ALL	75,000 ALL	110,000 ALL
 Bosnia-Herzegovina	430 BAM	650 BAM	790 BAM	1,200 BAM	1,100 BAM	1,600 BAM
 Bulgaria	240 EUR	360 EUR	440 EUR	660 EUR	600 EUR	900 EUR
 Croatia	300 EUR	450 EUR	550 EUR	825 EUR	750 EUR	1,100 EUR
 Kosovo	230 EUR	340 EUR	420 EUR	625 EUR	570 EUR	855 EUR
 Montenegro	220 EUR	335 EUR	405 EUR	610 EUR	555 EUR	830 EUR
 North-Macedonia	12,000 MKD	18,000 MKD	22,000 MKD	33,000 MKD	30,000 MKD	45,000 MKD
 Romania	1,250 RON	1,850 RON	2,300 RON	3,450 RON	3,100 RON	4,700 RON
 Serbia	27,000 RSD	40,500 RSD	49,500 RSD	74,000 RSD	67,500 RSD	100,000 RSD

Regional prices based on Purchasing Power Parity (PPP). Standard US\$ pricing applies to all countries not listed above.

Option 3: Corporate Subscription Plans

Who Is This For?

The Corporate Subscription Plan is designed for companies that require ongoing access to expert FEA support, mentoring, and FEM validation throughout the year. This plan ensures engineers always have a trusted expert on hand without the need for costly one-off consultations or in-house hires.

- Best for companies with multiple engineers needing FEA mentoring & guidance
- Organizations that use FEA regularly but don't have in-house specialists

Key Benefits

- ✓ **Team-Level Mentoring:** Coordinated one-on-one and group sessions aligned to your team's project priorities and skills gaps
- ✓ **Troubleshooting & Debugging:** Solve solver issues, convergence failures, or incorrect results
- ✓ **FEA Model Validation:** Ensure correct meshing, boundary conditions, and simulation accuracy
- ✓ **Skills Gap Assessment:** Initial competency evaluation for each engineer, with a tailored development roadmap
- ✓ **Continuous Support & Training:** Mesh optimization, elements, boundary conditions, solver settings
- ✓ **Online On-Demand Training:** Access to the FEA Academy Online Training Center
- ✓ **Quarterly Progress Reports:** Management reporting on engineer development, competency improvements, and recommended next steps

With every package, you have full access to Dominique Madier for expert guidance and detailed review of your FEA analyses.

Based on client outcomes, companies that invest in structured FEA mentoring typically see a **reduction in errors by 30%** and a **20% improvement in project efficiency** within 3 months.

Frequently Asked Questions

Q1 – How does team-level coordination work?

Support hours can be allocated flexibly across your engineering team. Dominique works with your team lead or engineering manager to identify individual skills gaps, prioritize training focus areas, and coordinate sessions — whether one-on-one or in small groups — to ensure each engineer progresses effectively.

Q2 – Is there any reporting on team progress?

Yes. Quarterly progress reports are provided to management, summarizing team's development, skills gaps addressed, competency improvements, and recommended next steps. This gives leadership visibility into the return on their training investment.

Q3 – What is the contract term?

All Corporate Subscription Plans are 12-month commitments. Annual fees are invoiced at the start of the contract period. Renewals and plan upgrades can be discussed in the final quarter of the agreement.

Q4 – How are individual skills gaps identified and addressed?

At onboarding, Dominique conducts an initial competency assessment for each engineer on the plan. This identifies specific areas for improvement — from meshing and boundary conditions to nonlinear solver strategies — and informs a tailored development roadmap that guides the mentoring throughout the year.

Standard Pricing

All Corporate Subscription Plans are 12-month commitments. Annual fees are invoiced at the start of the contract period.

Plan Feature	Essential Suite	Professional Suite	Platinum Suite
Team Size	1–5 Engineers	5–10 Engineers	10–15 Engineers
Annual Fee	US\$ 30,000 /yr	US\$ 50,000 /yr	US\$ 62,500 /yr
Included Support Hours (Live Zoom)	100 hrs/year	180 hrs/year	250 hrs/year
Basic Course (20 hours)*	✓	✓	✓
Nonlinear Course (12 hours)*	✗	✓	✓
Linear Static & Buckling, Modal Analysis Support	✓	✓	✓
Nonlinear Static Analysis Support	✗	✓	✓
Dynamic Freq. Response Analysis Support	✗	✗	✓
FEA Validation & Review	✓	✓	✓

* Unlimited access to the FEA Academy learning platform.