

Strand7 Training Course Schedule

UK Courses – October 2010

Overview

The UK Strand7 Training Course is being offered in three modules. The first module is for three days and covers Strand7 Essentials. Material is taken mainly from our well-established four-day *Introducing Strand7 Course*, the *Strand7 Automeshing Course* and the *Strand7 Structural Course*. The second module is for one day and covers introductory and intermediate level *nonlinear analysis*. The third module is also for one day and covers introductory and intermediate level *dynamic analysis*.

Participants can choose to attend one, two or all three modules, as there is no overlap in course material between the three modules. A significant amount of theoretical background material is also covered in each module as this greatly enhances the participants' understanding of FEA and how to use Strand7 effectively.

Successful completion of all three modules will generally take most engineers to a reasonable level of proficiency in the use of Strand7. Therefore, there is a special rate for those who choose to attend all three modules.

The course will be presented by staff from our Head Office in Sydney (Australia), together with Strand7 UK staff.

Refreshments and a Buffet Lunch will be provided; all attendees who complete the course will be issued with a signed Certificate.

Module 1: Introducing Strand7 (11th – 13th October 2010)

***Cost: £885 for 3 days**

This introductory three-day course is ideal for engineers to get started using Strand7. It is designed to give an overall understanding of the use of Strand7 for solving real engineering problems. It teaches how to create and verify finite element models, how to set up the solvers and how to interpret the results using the post-processing tools.

Day 1 will focus on the Strand7 interface, how to get around Strand7, understanding the use of the modelling tools, grouping, coordinate systems, attributes, running the solvers and performing most post-processing functions. Finite element basics are also covered with realistic practical models used throughout.

Day 2 will focus on mesh refinement, boundary conditions and results evaluation. More practical and illustrative models will be constructed to demonstrate the different mesh generation techniques available in Strand7. The afternoon session will focus on heat transfer analysis.

Day 3 will conclude the Strand7 essentials part of the course. More advanced topics will be covered including advanced load application, extracting moments from plate and brick elements and composite modelling. Depending on the level of interest, and time permitting, the benefits of the Strand7 API will be demonstrated by means of practical examples.

The examples presented over the three days will cover the use of beam, plate, brick and link entities in Strand7 and the linear static, natural frequency and heat transfer solvers.

Module 2: Nonlinear Analysis (14th October 2010)

***Cost: £295 for 1 day**

This one-day course covers the nonlinear solvers in Strand7 at an introductory to intermediate level. All aspects of nonlinear analysis supported by Strand7 will be covered including, geometric, material and boundary nonlinearity. Special topics on debugging and optimising convergence will be addressed, including mesh refinement and loading strategies applicable to nonlinear analysis. Linear vs nonlinear buckling analysis will be discussed and an introduction to construction sequence simulation will also be given. Models that are relevant to structural and mechanical engineering applications will be used.

***All prices are exclusive of VAT.**

Strand7 Training Course Schedule UK Courses – October 2010 cont'd

Module 3: Dynamic Analysis (15th October 2010)

***Cost: £295 for 1 day**

This one-day course covers the dynamic solvers in Strand7 at an introductory to intermediate level. It will discuss the dynamic analysis options available in Strand7, including natural frequency, spectral and harmonic response, and transient dynamic analysis, together with the application of each solver to different types of problems. The use of initial pre-stressing conditions, mass participation, direct integration, mode superposition and mesh refinement requirements relevant to dynamic analysis will also be covered. Examples from vibrating machinery and earthquake analysis will be used to illustrate the subject.

Special Offer: Module 1 + Module 2 + Module 3 *Cost: £1350 for 5 days

Read what previous attendees had to say about Strand7 Training...

"The training was well structured and delivered at an ideal pace. The course instructors clearly knew the software inside out and were able to explain not only how the functions worked, but also why they did. The course notes provided have also proved to be a valuable resource for my ongoing use of Strand7."

Stephen Walker, Transense, Oxon

"The key features of the course were:

- All of the courses were well presented.*
- The course instructor came across clearly and explained the modules well.*
- The course notes are very well structured and comprehensive.*
- Well prepared course instructor who knew the Strand7 product inside out.*
- The course instructor achieved a good balance between technical discussion and actual modelling.*
- Excellent choice of venue."*

Neil Kemp, Woodfield Systems, Kent

"The course was very objective and helped me a lot to achieve reliable and fast results using Strand7. It gave me the necessary confidence to perform the calculations demanded by the product development. "

Henrique Oliveira, Metso Brazil

"The Strand7 training course turned me from a complete beginner into a competent user of the program, able to demonstrate and teach it to my colleagues. By working with a group of fellow learners and with expert instruction, the learning experience was more complete, fun and quicker. I would definitely recommend the course to new users and those that want to get the most from the package."

James Koch, Imperial College, London

***All prices are exclusive of VAT.**

Strand7 Training 2010 Registration Form

Training Details

Time: 9.00 am to 5.00 pm each day

Location: The Claret Centre, Buckden Towers,
Buckden, Huntingdon, Cambs PE19 5TA

Provided:

- Colour print course notes
- One computer per person
- Course models on CD
- Lunch and refreshments

Booking/Payment Details (All prices exclude VAT)

<input type="checkbox"/>	Module 1	3 days	11 th , 12 th , 13 th October 2010	£885
<input type="checkbox"/>	Module 2	1 day	14 th October 2010	£295
<input type="checkbox"/>	Module 3	1 day	15 th October 2010	£295
<input type="checkbox"/>	All Three Modules	5 days	11 th , 12 th , 13 th , 14 th & 15 th October 2010	£1350

Name:					
Company:					
Address:					
Telephone:		Fax:		Email:	

Completed form and Company Purchase Order should be faxed to 01480 211 020 or emailed to info@strand7.co.uk

Important Notes:

- Those attending Module 2 or Module 3, (and not Module 1), should have a reasonable knowledge of the Strand7 interface and model building techniques before registering.
- The number of participants is limited.
- Confirmation of attendance will be made upon payment of fees.
- Each module requires a minimum number of participants; book early to ensure your module will run.
- Strand7 UK Ltd reserves the right to cancel any of these modules, giving 14 days notice before commencement of the module.
- Please ensure the module is definitely running before making your travel and accommodation arrangements.

Cancellation policy:

- Cancellations received by email or fax 14 days prior to commencement – Full refund LESS £50 admin fee.
- Cancellations received less than 14 days prior to commencement – No refund; full charges will apply.
- Should Strand7 UK Ltd cancel a module, a full refund will be paid.