



FLAC Training Course

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Day 1:

Introduction to *FLAC*

- **General description**
 - The explicit finite difference method
 - Constitutive models
 - Fish
- **Mechanics of using *FLAC* : Tutorial on basic modelling strategy**

Day 2:

Advanced modelling

- **Fluid-Mechanical Interaction**
 - Mathematical Model Description
 - Numerical Fluid Flow Formulation
 - Modelling Approach
- **Fluid-Mechanical Tutorial**
- **Soil/Rock structure Interaction**
 - Typical properties – Structural elements + Interfaces
 - Structural elements – 2D/3D Equivalence
 - Use of elements and of Interface
- **Structure Tutorial**

Day 3:

- **Dynamic Analysis**
 - Considerations when running dynamic analyses
 - Material models and damping
- **Dynamic Tutorial**
- **Bring one of your specific cases that may be discussed**

INTRODUCTORY COURSE

Course is held at our office in Ecully (nearby Lyon), and lasts 3 days.

Please read carefully all of the course notes below, and do not hesitate to contact us if you have any questions.

- **Class Schedule:** Each course day consists of two 90-minute sessions in the morning and in the afternoon. Courses sessions are as follows:
 - 08:30 AM to 10:00 AM
 - 10:30 AM to 12:00 AM
 - Box lunch catered by Itasca Consultants, S.A.S.
 - 01:30 PM to 03:00 PM
 - 03:30 PM to 05:00 PM

- **Materials:** Each participant is encouraged to bring his or her own laptop computer to class (Windows system). Otherwise desktop computers will be available for those with no access to a laptop. Participants are urged to install all Itasca software and help files prior to class.

- **Classes are taught by a team of software and consulting professionals.**

Time is evenly separated between lectures and hands-on tutorials.

