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## General Information on the Bernese Training Course

### 1. Overview

Twice a year, a 5-day training course for the *Bernese GNSS Software* is organised. This course covers basic and advanced operation of the *Bernese GNSS Software*, as well as more advanced topics of GNSS data processing strategies in general, and with the *Bernese GNSS Software* in particular. The course consists of daily lecture and exercise sessions on Linux-Terminals using the current version of the *Bernese GNSS Software*. A detailed work book with tasks, explanations and expected solutions is given to each participant. This document is also available on the [course page](#) of the *Bernese GNSS Software* website.

### 2. Intended audience

The course is intended for professionals actually working with the *Bernese GNSS Software*. Basically, it is an open course but due to space limitations, priority is given to personnel from institutions having recently acquired or updated a license of the *Bernese GNSS Software*.

Non-license holders may also participate in the course. This can be a good help in the decision making process for an eventual purchase of the *Bernese GNSS Software*. Please [contact](#) us if you are interested in attending the course.

### 3. Prerequisites

The course is given in English, only. As regards the Unix environment during the terminal sessions, we distribute a list of basic Unix commands, so no special knowledge of Unix/linux is required.

Participants should be familiar with fundamental concepts of GNSS, least-squares adjustment, site displacement modeling and geodetic datum definition. The course content does not introduce these concepts, but builds on them. A suggested reading list can be compiled from the content of the software manual, which is available for [download in pdf](#). Participants should be familiar with the topics in the suggested reading list below (links will open pdf at specified page if viewed in browser built-in pdf viewer):

- Fundamental concepts of GNSS - [Chapter 2, pp 51](#)
- Basics on Least Squares Estimation - [Section 7.2, pp 201](#)
- Theory on sequential Least Squares Estimation - [Section 9.2, pp 242](#)
- Site Displacement Modeling - [Section 10.1, pp 273](#)
- Geodetic Datum Definition - [Section 10.2, pp 276](#)

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## 4. Course Goals

The course should allow new users of the software to start productive work for most standard applications, as well as enable them to set up their own processing strategies, both manually and fully automated, using the *Bernese GNSS Software*'s processing engine (BPE).

Even though theoretical and general aspects of GNSS data processing are addressed during the course, it is not intended to be an introduction into general GNSS data processing. A certain level of knowledge in this area is necessary in order not to be overwhelmed during the course.

## 5. Costs

The purchase price of the software includes the course fee for two persons or for one person with a single workstation license. Additional participants per institution/license will have to pay the course fee of CHF 1'200.-. If you are unsure about the status of your institution, please [contact us](#).

Normally, you will be invoiced for the course fee, if applicable, shortly before the course. You will not have to pay before the course. Payment methods are direct wire transfer to our bank account, or, if you prefer, payment in cash or card at a bank here in Bern, In this case, please let us know.

## 6. Further Information

For further information please read the other documents provided on the *Bernese GNSS Software* [course page](#). Important travel and accommodation tips, as well as information regarding Visa requirements and procedures are given there.