The fee for this 5-day course is € 1990 plus German VAT, including all course materials. Your accommodation in Berlin has to be booked separately. Depending on your requirements we can arrange hotel accommodation in different categories.

By sending a registration you agree to pay the non-refundable deposit of € 500 according to the invoice that will be made available within the next five days. The total balance is due one week before beginning the course. The fee may be paid by bank transfer, credit card or check.

Applications are accepted on a first come first served basis. Our online registration form is available at www.vlb-berlin.org/en/microbiology Since the number of participants is limited, early registration is highly recommended.

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“Applied Microbiology” is a one-week full-time training course providing up-to-date knowledge in the field of practical microbiology with relevance for the brewing and beverage industry.

It covers the basics of microbiology, laboratory techniques, as well as microbial sampling in theory and practice. The course is conducted in VLB’s microbiological training laboratory and in our pilot brewery.

The following topics will be covered:

**Introduction to microbiological lab-work and analysis**
Characterisation, classification and identification of microorganisms with relevance to beer and beverages

**Microbiology lab work**
Sample preparation / analytics
Preparations for light-microscope examinations, cell counting, staining, plating, sterilization, disinfection, etc.

**Microbiological quality control**
Sampling, different products, detection of contaminants, appraisal of results, microbial sampling in the brewery, weak points in breweries, hygienic design and cleaning, premature yeast flocculation (PYF), yeast management

**Microorganisms**
Yeast, bacteria, molds (morphological and physiological characteristics)

**Nutrient media**
Different types, preparation, incubation, evaluation

The course will be held at VLB Berlin. Our institute is located in the heart of Berlin – the German capital.

You can expect a mixture of lectures and practical work in our microbiological training laboratories. In addition we will visit a Berlin brewery with a special focus on microbiological sampling/control.