



Basic Electrochemistry Course 2026

19 March 2026, St. Gallen, Switzerland

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 **Metrohm**
Schweiz AG

Basic Electrochemistry Course 2026

Duration: 1 full day (8 hours, including breaks)

Date: 19 March 2026

Venue: Pädagogische Hochschule St.Gallen, Institut Mathematische, Naturwissenschaftliche und Technische Bildung, Notkerstrasse 27, CH-9000 St.Gallen
Room H201 (Lecture) and Physics lab H202 (Demo stations)

Target group:

Professionals, educators, students, and researchers looking to take their first steps in electrochemistry and/or wishing to gain confidence in using electrochemical methods.

Difficulty level:

Beginner

Designed for participants with little to no prior experience in electrochemistry.

Course Description

This course introduces the basic principles of electrochemistry for dealing with a broad range of electrochemical systems (batteries, corrosion, fuel cells, surface treatments, and sensors). It covers the main concepts in electrochemistry, such as electrode potential and redox reactions, together with the fundamental laws (i.e. Faraday law). It also provides first hands-on experience with potentiostat setup and operation, including common electrochemical techniques. To do that, a combination of theoretical lectures and practical demonstrations will be used. Participants will have the possibility to see different experimental stations (electrochemical cells, corrosion, batteries, and electrodeposition) through interactive demonstrations.

Course Content

Theory (60%)

Demonstrations (30%)

Discussions and exercises (10%)

Course Cost

CHF 200.00

Course Objectives

By the end of the course, participants will be able to:

- Understand the core principles of electrochemistry, including redox reactions, cell potentials, and chemical reactions that occur at electrode surfaces.
- Use essential electrochemical terminology and key measurement concepts with confidence.
- Design and operate a basic three-electrode electrochemical cell for standard laboratory experiments.
- Gain hands-on experience with potentiostat setup and operation, including common electrochemical techniques.
- Record and interpret cyclic voltammograms, and extract key analytical parameters
- Identify and troubleshoot common sources of error and artefacts in electrochemical measurements.

The course includes lecture materials, a USB stick, lunch and breaks.

Organizers

PHSG, St. Gallen

OST, Buchs SG

EPFL, Lausanne

Metrohm Schweiz AG, Zofingen

Lecturers and Trainers

PHSG, St. Gallen – Dr. Frank Gfeller

OST, Buchs SG – Dr. Noémie Ott

EPFL, Lausanne – Dr. Anna Igual Munoz

Metrohm, Zofingen - Dr. Teresa Nathan Walleser

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