

# EPICS Hands-On Lab: Installation, Configuration, and Phoebus GUI Development

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## Hand-on lab

*Wednesday 26 February 2025 13:30 (3 hours)*

### Session Structure

#### EPICS Base Installation & Configuration

Step-by-step installation of EPICS Base on Ubuntu Linux

Setting up environment variables and dependencies

Building and configuring IOC applications

Troubleshooting common setup issues

Interactive Phoebus GUI Development Practice (for those who complete installation early)

Introduction to Phoebus and its features

Creating basic EPICS GUIs for monitoring and control

Connecting EPICS records to graphical elements in Phoebus

Customizing Phoebus layouts, widgets, and panels for better usability

Q&A and Individual Troubleshooting

Addressing participant-specific challenges

Resolving errors in installation, IOC setup, or Phoebus GUI implementation

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