



Post-Commissioning and Electrical Assessment Training

For PSA Medical Oxygen Plants

This document was developed by Build Health International for the Global Fund's Project BOXER.

Purpose: This training package will prepare trainees to conduct a comprehensive post-commissioning assessment for a PSA plant installation. The team of trainees will learn how to collect information to identify issues that could impede PSA plant success. Performing checks on newly commissioned plants can identify problems with equipment, infrastructure, and administrative support that, if not corrected early, can affect plant longevity and impact.

Who is this course for?

This course is intended to train a small team to travel to different PSA plants to assess them for quality. The team should consist of at least one person who can assess a PSA plant (biomedical engineer, technician, operations staff member) and at least one person who has a background in electrical systems.

Available in
English
and French!

Learning outcomes

Through classroom instruction, participants will:

- Learn how to fill out the post-commissioning assessment form completely and accurately
- Understand how the data gathered during the post-commissioning assessment form influences PSA plant health
- Learn how to fill out the electrical assessment form completely and accurately
- Understand how the fields in the electrical assessment inform infrastructure and long term success of the oxygen system

This training is grounded in hands-on capabilities. Participants will put theoretical content covered in the classroom into practice during practical sessions. This enables them to practice new skills and gain valuable insights into how the post-commissioning assessment form and electrical assessment form are completed in practice.

A post-commissioning assessment is performed to evaluate an existing PSA plant and its associated infrastructure, which directly impacts plant health and long-term oxygen system success. This assessment takes after PSA plants are commissioned. The training equips local teams with the skills to conduct proper assessments independently for new and future PSA plant installations. Ongoing training and virtual support are available to reinforce knowledge and accountability, and to provide additional instruction as needed. The Terms of Reference for the training can include BHI remote assistance as trainees conduct the assessments and implement the forms. This includes live virtual support with the assessments and in the development of the reports.

Real-world expertise

These courses were developed in close collaboration with engineers, technicians, and electricians with deep expertise in installing, maintaining and repairing PSA plants. BHI refines and improves training materials based on learnings from medical oxygen projects, and from previous editions of these courses.



For more detail on the exact topics this course covers or on the other PSA plant training BHI offers, please email

bhi-gf@buildhealthinternational.org

or visit

<https://www.theglobalfund.org/en/covid-19/medical-oxygen-respiratory-care-and-therapeutics/>

Training materials

All attendees receive:

- An electronic and spiral-bound copy of the training presentation
- A PSA plant post-commissioning assessment form
- A PSA plant electrical assessment form