

Transformer / Alternator

Understanding Electrical Engineering

TRAINING OBJECTIVE

- Understand the constraints linked to operating an alternator/transformer
- Identify the characteristics of the power transformer (isolation, protection, components, and peripherals)
- Describe alternator technology
- Monitor and implement alternator and transformer maintenance checks

People concerned: mechanics

PEDAGOGY

- Theoretical and practical training
- Practice on a simulator
- Handout provided by the trainer
- Individual testing of knowledge at the end of the course
- A certificate attesting to the participation in the course will be sent to the employer

Length of the course:10 days

(5 days minimum)

TRAINING PROGRAM

Alternator

How it works:

- What it consists of and its environment
- the operating principles
- the operating diagram (real and reactive power)

Technology:

- Technologies that make up alternators
- excitation systems including reverse alternators

Maintenance of an alternator:

- The relevant checks as part of preventive maintenance
- The various types of faults

Transformer

How it works:

- What makes up a power transformer
- the operating principles of a transformer

Technology:

- Elements on the identification plate
- Technologies that make up transformers
- Setup and Environment
- Technologies that make up insulators

Maintenance of an alternator:

- The relevant checks as part of preventive maintenance
- The various types of faults