



Variable Speed Drives Essentials

Application: AC/DC motors

Purpose

- Familiarize yourself with basic knowledge concerning motors
- Familiarize yourself with variable frequency drive (VSD)
- Understand the basic principle applied to motor control.

Target audience

- Operator personnel / Management personnel / Maintenance personnel / Engineering personnel.

Prerequisite

- Experience or knowledge in Power Conversion products or/and systems
- Experience or knowledge in Variable Speed Drives or Control Systems.

Location: Global Technical Learning Center Villebon

Duration: 2 days (14 hours)

Practical Exercises:10 %

- Showing a motor piloted by a variable speed drive.

Training Equipment

- Use of drive mock-ups
- Use of dedicated tools.

Assessment

- Quiz
- Practical exercises.

Trainee's Documentation

- Specific customer documentation
- Customized training material
- Certificate of attendance.

Training Code	EN VAR IN
Max number of trainees	8
Price	Contact us

Content

THEORETICAL BASIC REMINDERS

- Elementary notions
- Current, voltage, magnetism

POWER SUPPLIES

- Continuous current, alternating current
- Three phase voltage supply , DC bus
- Graetz bridge

MOTORS

- Direct current motor
- Induction & Synchronous motor
- Introduction to vector control

POWER ELECTRONIC DEVICES

- Diode, Thyristor, IGBT

VARIABLE SPEED DRIVES

- Different types of variable speed drives
- The range of GE Power Conversion variable speed drives
- Introduction to multi-level inverters

