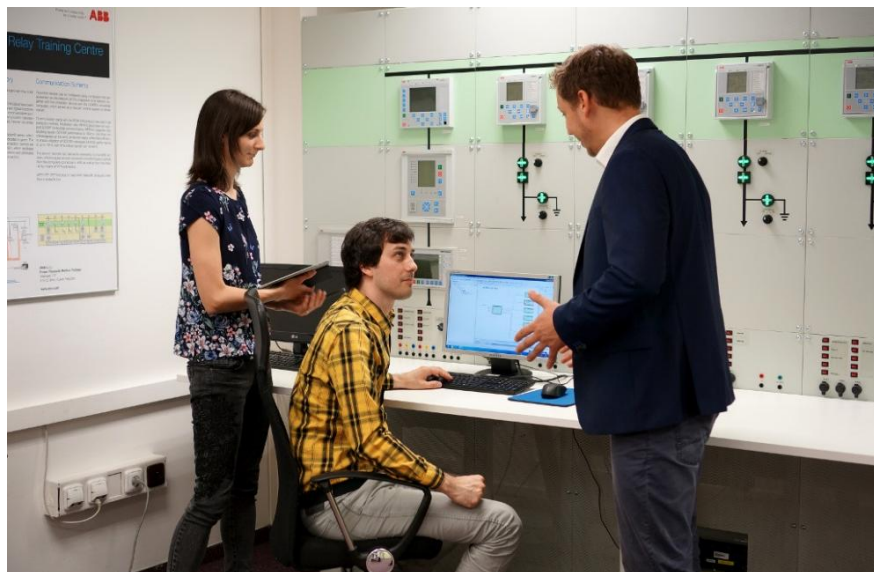


SERVICE OF MV, LV TECHNOLOGIES

Training course CZ064

Operation and setting of MNS Digital with M10x

**Goal:**

The goal of the program is learning MNS Digital switchgear with circuit breaker operation and maintenance and M10x operation and setting.

Participant profile

The training is targeted to service engineers, testing and maintenance personnel, external consultants and electrical engineers.

Prerequisites and Recommendations

The course is built for switchgear operators and maintenance personnel. Students shall have a basic knowledge of electrical switchgears.

Learning Objectives

Upon completion students will be able to:

- Operate MNS switchgear, make basic maintenance and know required site conditions
- Understand of SACE CB design, operation, maintenance and fault investigation
- Understand basics electrical wiring, control and parametrization of motor controller M10x

Modules

The course composed of following modules:

- O502 - MNS Digital introduction and operation
- CZ051 - ACBs & MCCBs operation and maintenance
- CZ053 – M10x operation and setting

Module Duration

4 days

ABB s.r.o.

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SERVICE OF MV, LV TECHNOLOGIES

Training module O502

MNS Digital introduction and operation



Goal:

The goal of the course is to familiarize with MNS Digital (MNS 3.0) modular low voltage switchgear, its parameters, basic manipulation, maintenance and required site conditions.

Participant profile

The training is focused on engineers, operators and maintenance personal.

Prerequisites and Recommendations

The course is built for switchgear operators and maintenance personal. Students shall have a basic knowledge of electrical switchgears.

Learning Objectives

Upon completion students will be able to:

- understand the basics of MNS design
- parametrize protections and control logic
- know the basics of maintenance and fault investigation

Main Topics

The course contains following topics

- History of MNS
- Basic parts and design aspects
- Site conditions
- Maintenance

Module Duration

1 day

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SERVICE OF MV, LV TECHNOLOGIES

Training module CZ051

ACBs & MCCBs operation and maintenance



Goal:

The goal of the course is to familiarize with using and control of SACE ACB's & MCCB's, its parameters, basic manipulation, maintenance and required site conditions.

Participant profile

The training is targeted to ABB salesmen, external consultants and electrical engineers

Prerequisites and Recommendations

The course is built for beginners in the using and control of SACE ACB's & MCCB's. Students shall have a basic knowledge of CB electrical devices.

Learning Objectives

Upon completion students will be able to:

- understand the basics of SACE CB design
- know the basics of operation, maintenance and fault investigation
- know CB life cycle - inspection and life plan

Main Topics

The course contains following topics

- ACB & MCCB Family range overview
- Possible accessories
- Trip units introduction
- Basic Maintenance
- Inspection and test plan
- Practical exercise

Module Duration

1 day

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SERVICE OF MV, LV TECHNOLOGIES

Training module CZ053

M10x operation and setting

**Goal:**

The goal of the course is to understand basic electrical wiring of M10x, control and parameterization of M10x.

Participant profile

The training is targeted to ABB salesmen, external consultants and electrical engineers.

Prerequisites and Recommendations

The course is built for beginners in the connection and control of motor controller from family M10x. Students shall have a basic knowledge about motor starters.

Learning Objectives

Upon completion students will be able to:

- Understand different type of M10x applications.
- Parameterization via LCD panel and PC software.
- Reading of statuses and motor control.

Main Topics

The course contains following topics

- M10x types & accessories
- Control
- Protection functions
- Maintenance
- Practical exercise – parameterization

Module Duration

2 days

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