

Siemens Gamesa - SG Training Web

SE-P-09900

Commissioning and Troubleshooting Core Course

Purpose

The overall purpose of this course is for the participant to understand and demonstrate the fundamentals of wind turbine control systems during Commissioning and Troubleshooting; and to apply the "7 steps of troubleshooting" for the diagnoses and repair of common faults.

Who should attend?

The course is intended for technicians progressing to the Profiles:
Competent Technician Commissioning
and/or
Troubleshooter

Objectives

Upon completion of the course the participants must be able to:

Knowledge

- Explain the differences between the role and responsibilities of a commissioning tech and a troubleshooter
- Describe the different types of valves and sensors; and related control signals
- Describe the function of relays, thermal relays, contactors, and power supplies
- Define the purpose and function of the converter system
- List and explain the "7 steps of Troubleshooting"
- Explain the concept of the 80% Rule of Troubleshooting
- Explain the operation and control of a 3-phase motor

Skills

- Measure insulation resistance, continuity, inductive and capacitive components of a motor
- Recognize and describe the diagnostic tools needed for commissioning and troubleshooting
- Identify the different types of sensors used and the associated warnings
- Test the operation of a 3-phase motor to establish phase rotation
- Apply the "7 steps of Troubleshooting"

Behavior

- Work following established safety procedures
- Apply Troubleshooter philosophy

Theory / Practice

70% / 30%

Prerequisites

SE-P-85400 General Electrical Awareness eLearning course
SE-P-05015 Regional AM General Electric Awareness Refresher

Recommended:

Completed Technical Product Training

Notes

Validity

No Expiry

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Export control

AL-Number: N

ECCN: EAR99