

PROGNOST[®]-NT Training

Training solutions tailored to your needs



Introduction

Discover the training experience that best fits your goals. Each session is tailored to the questions you share in advance, ensuring your team receives exactly the knowledge they need – clear, practical and immediately valuable. Our on-site training delivers the strongest impact.

By working directly on your PROGNOST®-NT system, real-world challenges are transformed into hands-on learning experiences, creating an immersive and highly effective training environment directly at your facility.

Prefer a focused environment away from daily operations? Our training center provides the ideal setting. Using a live PROGNOST®-NT system and practical case studies, your team can explore the system's full capabilities and sharpen their skills without distraction.

Looking for maximum flexibility? Our remote training option brings expert guidance directly to you – wherever you are. Short, interactive sessions keep participants engaged while offering maximum flexibility when travel or scheduling is limited. All training formats include full access to the PROGNOST Campus – your digital hub for preparation materials, post-training resources and convenient certificate downloads.

Our mission is simple: To deliver flexible, high-value training that empowers your team to master the PROGNOST®-NT system with confidence and clarity.



Our trainings at a glance

Training course	Main objective	Key focus areas	Duration	Target group	Prequalification	Best fit for
Initial training	Build fundamental system knowledge	Monitoring principles, system architecture, sensors, signals & thresholds, diagnostics basics, protection limits, PROGNOST®-NT VISU handling	2 days	Maintenance, reliability, mechanical engineers (core users)	None	New users who need a complete understanding of PROGNOST®-NT
Operator training	Enable safe and confident daily operation	Alarm handling, warning colors, notifications, reports, dashboards, log-book, basic system understanding	1 day	Plant operators	None	Operators interacting with PROGNOST®-NT during daily operation
Instrumentation training	Ensure technical availability of the system	Sensors and loops, hardware components, communication, troubleshooting, protection limit handling, maintenance of hardware	1 day	Electrical & instrumentation (E&I), core users	None	Personnel responsible for installation, maintenance and fault resolution
Expert training	Deepen knowledge and address specific challenges	Customer-specific topics, advanced diagnostics, system optimization, selected components or applications, dedicated case studies	1 – 2 days (custom)	Maintenance, reliability, mechanical engineers (core users)	Experience in PROGNOST®-NT VISU usage or initial training	Experienced users who're using PROGNOST®-NT VISU for diagnosis on a regular basis and want more insights

Initial training

The foundation for confident and effective use of PROGNOST®-NT

The PROGNOST®-NT initial training provides a comprehensive introduction to the monitoring system and establishes a solid foundation for effective daily use.

Participants gain a clear understanding of monitoring principles and learn how PROGNOST®-NT supports both machine protection and early failure detection, enabling confident interpretation of system warnings and colors and appropriate reaction in operational situations.

The training covers the fundamental functions of the monitoring system, including the use and prioritization of various sensors and their impact on system availability. In addition, participants are introduced to the basics of machinery diagnostics for reciprocating compressors through practical case studies.

Content

Basics of monitoring

- What is the concept of monitoring?
- Use of a monitoring system
- System architecture
- Compressor design

Data acquisition

- Sensors
- Sensor positions
- User interface basics

Diagnostics on case studies

- Crosshead issues
- Cylinder and valve issues
- Piston ring / rider band issues
- Interaction between pressure and vibration
- Valve leak detection

If access to a live system is available (on-site or via a demo system), the training includes hands-on sessions using the PROGNOST®-NT VISU user interface. The most frequently used VISU functions are explained, allowing participants to navigate the software efficiently and apply their knowledge immediately after the training.



Signals and thresholds

- Centrifugal vs reciprocating compressors
- What does segmentation mean?
- Machine protection vs early failure detection
- Warning colors

Protection limit adjustment

- Function of protection limits
- Protection rules
- Voting of sensors

Handling PROGNOST®-NT VISU

- Report function
- OneClick cockpit
- Logbook
- Dashboard
- Component tracking
- Ring buffer handling

Duration	Participants	Target group	Prequalification	Limitations
2 days	5 persons covered, maximum 12 on request	Maintenance, reliability or mechanical engineers – core user	No	Small systems (e.g., crosshead only) require only one day

Operator training

Understanding alarms, warnings and correct operational response

The PROGNOST®-NT operator training is specifically designed for plant operators who interact with the monitoring system during daily operation. The training provides a clear understanding of the purpose and value of PROGNOST®-NT, with a strong focus on safe operation, operational efficiency and correct response to system indications.

Participants learn how to interpret notifications, warning colors and system messages and how to react appropriately in practical operational situations. The training explains the monitoring system from an operator's perspective, focusing on the relevant system functions without going into diagnostic or technical configuration details.

The operator training is an integral part of the first day of the PROGNOST®-NT initial training, ensuring that operators are well prepared to use the system confidently and consistently in daily plant operation.



Content

Basics of monitoring

- What is the concept of monitoring?
- Use of a monitoring system
- Architecture of a monitoring system
- Compressor design

Signals and thresholds

- Centrifugal vs reciprocating compressors
- What does segmentation mean?
- Machine protection vs early failure detection

Alarm handling

- Explanation of warning colors
- Alarm rationalization
- Alarm escalation

Data acquisition

- Sensors
- Sensor positions
- User interface basics

Handling PROGNOST®-NT VISU

- Report function
- OneClick cockpit
- Logbook
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Duration	Participants	Target group	Prequalification	Limitations
1 day	Maximum 12, more on request	Plant operators	No	No

Instrumentation training

Ensuring technical availability and reliable system operation

The PROGNOST®-NT instrumentation training is specifically tailored to the needs of electrical and instrumentation (E&I) personnel responsible for the technical availability and reliability of the monitoring system.

The training provides a solid understanding of the system's structure and functionality, enabling participants to confidently fulfill their technical responsibilities.

Participants gain detailed insight into sensors and measurement loops, hardware components, software functions and communication paths. A strong focus is placed on troubleshooting, allowing participants to identify, analyze and resolve common system issues efficiently and independently.

Upon completion of the training, participants possess a comprehensive technical understanding of the PROGNOST®-NT monitoring system, supporting stable system operation and long-term reliability in the plant environment.



Content

Measurement loops

- Mounting of sensors
- Troubleshoot the loops
- Detect loop failures

Hardware

- Cabinet components
- Functional components
- How to exchange cards

Protection limit adjustment

- Function of protection limits
- Protection rules
- Voting of sensors
- Maintenance of bypass

Software

- Principal function of PROGNOST®-NT
- Communication ways
- Troubleshoot

Handling PROGNOST®-NT VISU

- Report function
- OneClick cockpit
- Logbook
- Dashboard
- Component tracking
- Ring buffer handling

Duration	Participants	Target group	Prequalification	Limitations
1 day	Maximum 12, more on request	Electrical and instrumentation (E&I) personnel and core user	No	No

Expert training

Advanced, customer-specific training for real-world challenges

The PROGNOST®-NT expert training is an advanced, highly tailored training format designed to address specific customer challenges and real-world application scenarios. In this on-site format, a PROGNOST specialist spends a full day at the customer's facility, focusing entirely on individual questions, system behavior and operational requirements.

The training content is defined jointly in advance and may include advanced diagnostics topics, system optimization, analysis of live data, or dedicated troubleshooting scenarios. This targeted approach ensures that participants receive direct, actionable guidance with immediate relevance to their operational environment.

To achieve the highest training effectiveness, participants should already have a foundational understanding of the PROGNOST®-NT system. This enables the expert to focus on advanced topics and practical solutions rather than basic system functions.





PROGNOST Systems GmbH

Daimlerstr. 10

48432 Rheine (Germany)

Tel.: +49 – 5971 – 80 81 90

info@prognost.com

www.prognost.com

