



The new platform
for technologies of excellence

MOVICON.NEXT TRAINING PROGRAM

Introduction

The Movicon.NEXT training program offers courses designed to introduce and teach users how to use the new Platform.Next and Movicon.Next technology at various levels.

These training courses are aimed at those users who wish to get to grips with the new Platform.Next technology in order to become productive in the most effective way as soon as possible.

The Progea training program offers:

Free Entry Level Course	This is a free of charge (FOC) Introduction course at multi-company level based on a basic approach to product use. This course is held at the Progea offices according to prescheduled dates and times. Enrolment is open to a minimum of 6 participants with advance booking only.
First Level Basic Course	A one-day basic course with fee. Held at the Progea offices according to date and time established with customer. This course can also be given on location at customer's company (to be arranged with customer).
Advanced Level Course	Two-day advanced training course with fee. Held at the Progea offices according to data and time established with customer. This course can also be given on-site at customer's company (to be arranged with customer).
Custom Training Course	A customized course based on training-assistance-consultation for developing projects that is tailored to customer needs. Date, time and payment to be arranged with customer.

Session times	Morning session: 9 am to 1 pm. Afternoon session: 2 pm to 5 pm.
Location	Progea Srl offices in Modena, Italy (if not specified otherwise).
Requirements	Participants are advised to attend the course with an overall vision of the platform preinstalled on their notebook. Basic Knowledge of Windows 7/8 and industrial automation is also required.

1. Free Entry Level Course program

1. **Participant Welcome and Registration**
2. General themes:
 - The new Platform.NExT technology
 - Concise introduction to the architecture concepts
3. Creating a new project:
 - Workspace: Menus, Ribbons, properties
 - Using objects and resources

Coffee Break

4. The Server: Tag Database
 - Concepts of using Tags (Variables)
 - I/O Drivers and physical addresses
5. II Server: Historicals
 - Concepts of Historical Prototypes and Data Loggers
 - Data recording criteria
6. II Server: Alarms
 - Concepts of Alarm Prototypes and associating tags
 - Historical Log Archives
7. The Client: The graphics
 - Concepts of using screens
 - Objects and Symbol Libraries
8. Dynamic Animation:
 - Symbols and Animation graphics concepts
 - Alarm, Log, Trend and other Viewer object types

1-2 pm Buffet offered by Progea

9. Data Analysis:
 - Quick demonstration on how to use Trends and Charts, Data Analysis
 - Quick demonstration on how to use the Report Designer
10. Recipe Manager:
 - Basic concepts on Recipe Manager module use
11. User Management:
 - Basic User Management and Security concepts
12. HTML5 Web Client:
 - Introduction to the HTML5 Client Web concepts

2. First Level basic training course program

Starts at 9 am

1. General Themes:
 - The new Movicon.NexT technology
 - Architecture concepts
 - Main differences between Movicon.NEXT and Movicon 11
2. Creating a new project:
 - Workspace: Menus, Ribbons, properties
 - Project, resource and template structures
 - Using objects and resources
3. The Server: Tag Database
 - Defining Tags (Variables)
 - Tag properties
 - I/O Drivers and physical addresses

Coffee Break

4. The Server: Historicals
 - Defining Historical Prototypes
 - Data recording criteria
 - Data Loggers
5. The Server: Alarms
 - Defining Alarm Prototypes
 - Historical Log Archive
 - A concise introduction to Alarm visualization on Client side using the relationship concept

1 – 2 pm Lunch Break

6. The Client: The graphics
 - Creating a new screen
 - The Main page: how to use the Tiles, Gallery and GeoPage
 - Objects and Symbol Libraries
7. Dynamic Animation:
 - Toolbox Objects
 - Symbol and Animation graphics
 - Alarm, Log, Trends and other viewer objects
8. Data Analysis:
 - Concepts of using Trends and Charts, Data Analysis
 - Concepts of managing Reports: Reports Designer
9. Recipe Manager:
 - Concepts of using the Recipe Manager Module

10. Users Management:

- The Users Management
- Password management criteria

11. Scripting:

- Demonstration on ways to use the VB.NET language

12. HTML5 Web Client HTML5:

- The server and deploying projects
- The Client Web
- Limitations

13. License Management:

- License management criteria

14. Summary of the arguments dealt with:

- Quick recap of the arguments covered in this course

Course ends at 5 pm

3. Platform.Next Advanced Level training course program

First day starts at 9 am

1. General themes:

- The new Movicon.NexT technology
- Architecture concepts
- Framework and Client and Server concepts, local or remote
- Minimum system requirements
- The OPC UA technology
- The WPF and XAML technology
- Main difference between Movicon.NEXT and Movicon 11
- Movicon.NEXT installation

2. Creating a new project:

- The workspace: Menus, Ribbons, properties
- Project, resource and template structures
- Using objects and resources
- Project file structure (XAML)
- Virtual File System (VFS) concepts: recording project on DB

Coffee Break

3. The Server: Tags Database

- General Settings: connecting to DB for Events and historical data, the XPO provider and ODBC excess
- Using the SQL Server Express
- Variable types and OPC UA specifications
- Tag properties
- Method variable types: practical example with Demo driver
- The Viewers
- Engineering Units
- I/O Drivers and physical addresses
- OPC UA Client and Server Connectivity: a non-NExt client connection example

4. The Server: Historicals

- Historical prototype definitions
- Recording criteria
- Data Loggers
- Display objects, HistoricalViewer, DataLoggerViewer, Trend, DataAnalysis
- A brief concept of the relationship between the Historicals, Trends and Reports

12.30 – 2 pm Lunch Break

5. The Server: Alarms

- Alarm Prototype definitions
- Thresholds and properties
- Bit pointers in alarm thresholds
- String table and alarm messages
- Historical Archive
- Relationship concepts with Alarm visualization on Client side
- Display objects: Alarm Window, Banners

6. The Client: Graphics

- Movicon.NExT, the Client display module
- Create a new screen
- The Main page: using the Tiles, Gallery and GeoPage
- Geolocalization concept of use
- Examples of using interactive maps
- Internal graphics editor and importing from XAML
- Creating a symbol example
- Objects and Symbol Libraries (drop link and merge link)
- Cloud concept
- Power Template: symbols as instances
- Multitouch settings and manipulation

7. Dynamic Animation:

- Object animation types
- 3D graphics concept
- Alarm viewer objects, Log Trends, etc.
- Using logic expressions

8. Command List

- Example of settable commands according to typology
- Screen parameters and parameterization files

9. Summary of arguments dealt with:

- A quick recap of the themes covered so far
- Hands on session
- Question time

Session finishes at 5 pm

Second Day starts at 9 am

9. Reports:

- Basic Reports, wizard for creating reports
- How to create advanced Reports and objects
- Using parameters

10. Recipe Manager:

- Recipe Manager module concepts
- Managing recipe data toward the DB and field

Coffee Break

11. Scheduler

- Scheduler as server
- Scheduling types

12. Alarm Dispatcher

- Alarm dispatcher as server
- Plug in configurations
- Notification definitions

13. Menu resource

- How to create a menu

14 Accelerator resource

- How to create a shortcut command using combination keys

15. Users Management:

- Security criteria concepts and Providers
- The Users management: Hierarchical levels and bit mask
- User and user group properties

12:30 – 2 pm Lunch Break

16. Child Projects

- Parent-Child project subdivisions
- Creating a client

17. The Events

- Defining an Event

18. Scripting:

- VB.NET language concept
- Managing Scripts as resources or in events linked to objects
- The vba interfaces provided
- Invoking methods using script

19. HTML5 Web Client:

- Reference architecture, web server
- Concepts of HTML5 and Web Sockets
- Creating HTML5 clients: deploying a project
- The difference of Web Client in respect to MOV11 Web Client
- Web Reports
- General limitations

- Difference between HTML5 Web Client and WPF Desktop Client

20. General Concepts:

- License management criteria
- Platform evolution and roadmap concept

21. Summary of themes covered in this session:

- A recap of themes dealt with
- Hands on session
- Question time

Course finishes at 5 pm

To register for a course:

1. Consult the course calendar published on the website at www.progea.com
2. For course availability and prices please contact Simona Giosa, the Course Organizer, by email: sgiosa@progea.com

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