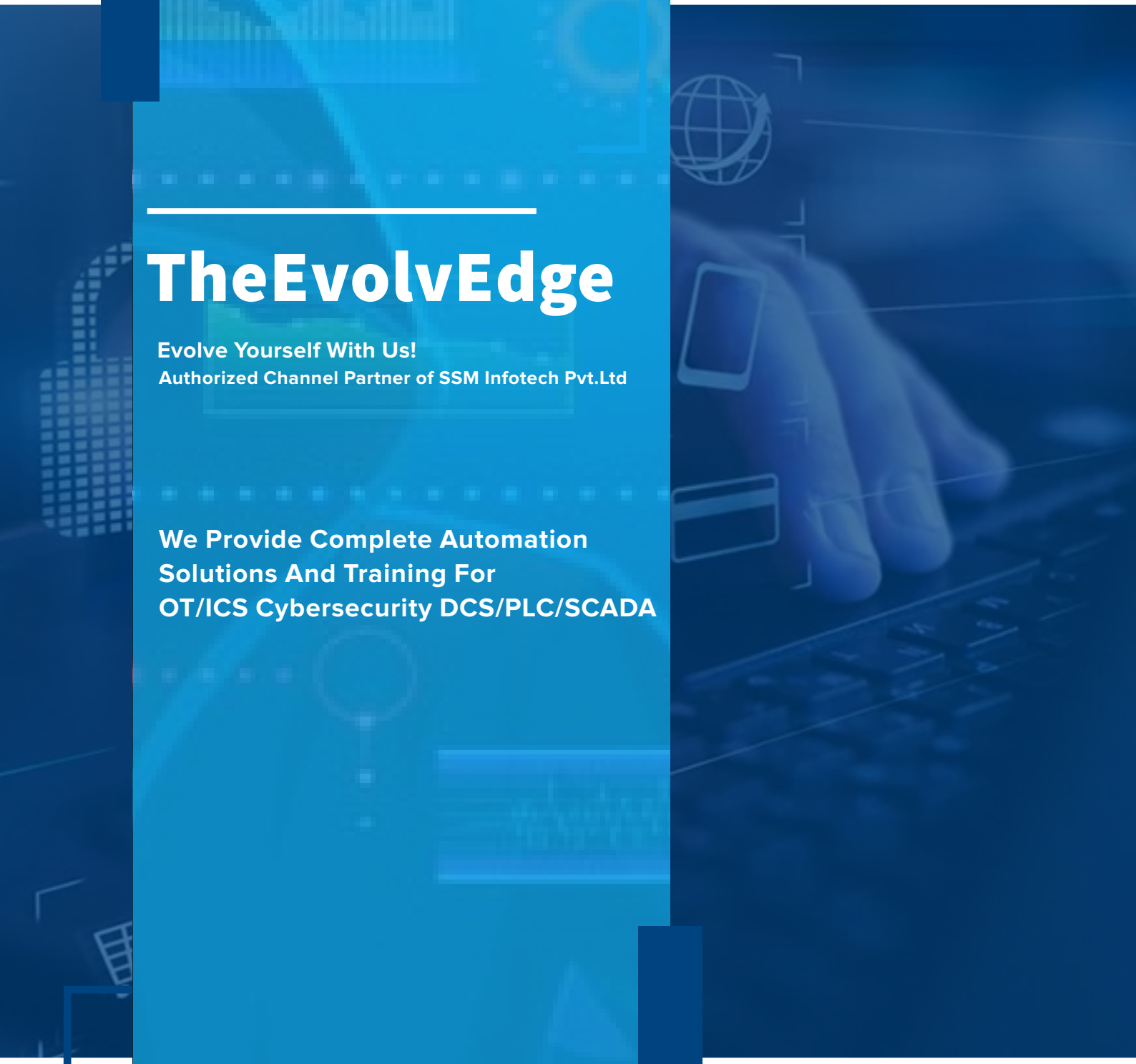
EvolvEdge

ISO 9001:2015 CERTIFIED



# TheEvolvEdge

**Evolve Yourself With Us!**

**Authorized Channel Partner of SSM Infotech Pvt.Ltd**

**We Provide Complete Automation Solutions And Training For OT/ICS Cybersecurity DCS/PLC/SCADA**

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# Introduction

We are Evolvedge Technology Solutions Pvt. Ltd., an ISO 9001:2015–certified company and authorized channel partner for SSM Infotech and Danieli Corus. We offer a comprehensive suite of services—including OT/ICS cyber-security training, DCS, PLC, SCADA, and power-plant DCS training—as well as VAPT services, automation hardware/software engineering, and commissioning support. We're passionate about delivering innovative, high-quality solutions and would welcome the opportunity to collaborate with your organization.

# Our Products As A Ssm Infotech

**Alarm & Information Management System Aims**

**Historian**

**Digitalization of Work (DOW)**

**Energy Management System**

# Our Product Installation Base

We serve a diverse range of industries—POWER, Oil & Gas, Metals & Mining, Chemicals, Pulp & Paper, Automotive, Marine, and more—with tailored solutions. Here are some of our valued clients:

**ONGC, NTPC, GAIL INDIA LIMITED, RELIANCE, MRF, ADITYA BIRLA, INDIAN OIL, IOCL, ITC, TATA STEEL, ETC**

# Our Services

At The Evolve Edge, we offer a comprehensive suite of services tailored to Industrial projects:

- **Plant Control Systems:** Expert design & implementation using DCS, PLC, SCADA for optimal plant performance.
- **OT/ICS Cyber Security Training:** Hands-on training in OT security, DCS/PLC/SCADA systems, Nozomi & Claroty tools, with alert monitoring.
- **Engineering Services:** Complete electrical, mechanical & automation (DCS) engineering from concept to execution.
- **Implementation & Installation:** End-to-end system deployment ensuring minimal downtime and maximum efficiency.
- **Commissioning:** Comprehensive testing to ensure full operational readiness and compliance.
- **Industrial Automation Manpower:** Skilled technical staff for automation projects with DCS, PLC, and SCADA expertise.

# Our Portfolio

We have a team of professional having more than 20 to 25+ years of experience. The team has exposure ranging from greenfield installations to modernizations and upgrades, the Evolve Edge continues to drive progress in the automation sector. The Evolve Edge's expertise extends to DCS and PLC Control Systems such as -

- **Emerson Ovation**
- **Yokogawa Centum VP**
- **Valmet DNA**
- **Toshiba TOSMAP**
- **Siemens S7-Series PLC and TIA Portal**
- **Allen-Bradley CompactLogix, ControlLogix and MicroLogix**
- **ABB AC500, AC800M**

# OT/ICS Cyber Security Tools and Services

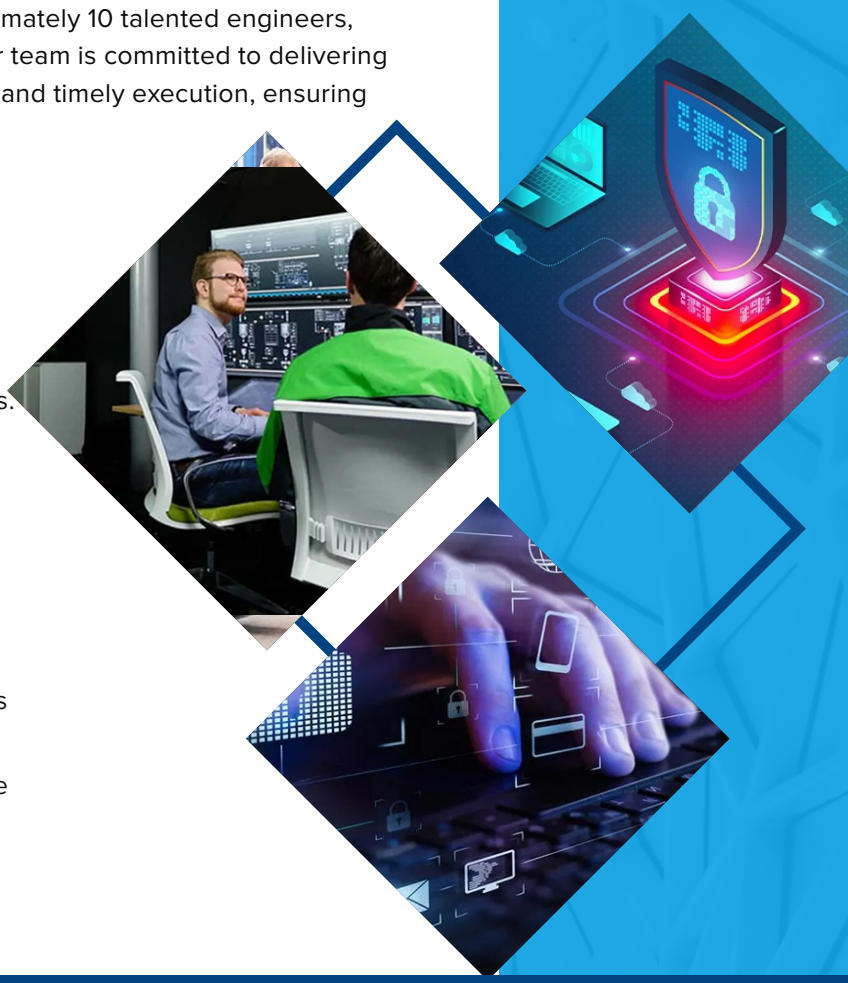
We have a team of professional having more than 20 to 25+ years of experience. The team has Nozomi Certified Engineer and IEC62443 Certified professional.

- **Threat Detection & Monitoring (Nozomi Networks, Claroty, Armis)**
- **Remote Access & Secure Connectivity (Secomea)**
- **Identity & Access Management (BeyondTrust)**
- **Risk Assessment & Compliance Support**
- **Incident Response & Security Implementation**

The Evolve Edge Solutions boasts a team of approximately 10 talented engineers, including highly experienced founding partners. Our team is committed to delivering value-added solutions with uncompromising quality and timely execution, ensuring complete customer satisfaction.

# Technology and Quality

The Evolve Edge is dedicated to delivering excellence by leveraging advanced technology to provide seamless connectivity at competitive prices. We are enthusiastic about the opportunity to collaborate with your esteemed organization, offering our expertise in DCS Engineering and OT/ICS Cybersecurity Services. We believe this partnership can yield significant value and foster a mutually beneficial relationship. We welcome the chance to discuss this proposal further and address any questions you may have. Thank you for considering this opportunity; we look forward to the possibility of working together and contributing to your continued success.Sources



# OT/ICS CYBERSECURITY TRAINING CONTENT

| MODULE NO | DESCRIPTION | DETAILS |
|---|---|---|
| Module 1 | Basic Fundamentals of Cyber Security in OT | CIA Triad - Confidentiality, Integrity and Availablity<br>Authentication with Its Type<br>Authorization<br>Access Control System<br>Security Posture<br>Purdue Model - Level0 to Level5<br>Risk and Its Type<br>Threats<br>Vulnerability and its type<br>Identifying and Mitigating Vulnerabilities<br>Managing the Risk<br>ICS Attacks |
| Module 2 | Fundamental of OSI Model and its Protoco | Recap of OSI Model<br>Introduction of TCP/IP<br>Overview of DNS and DHCP Protocols<br>Overview of L2 Switch, L3 Switch and Router<br>Intriduction of Subnetting<br>Subnetting Continue<br>Address Resolution Protocol<br>Network Protocols<br>IP address Types<br>IPv4 Header<br>Industrial protocol- MODBUS<br>Wireshark: Pcap Analysis tool comparing the pcap files of ICS protocols and IT protocols etc. |
| Module 3 | Fundamentals :Hacking ,Ethical Hacking/ Penetrat | Definition of Hacking<br>Types of Hacking<br>Why Ethical Hacking over VA tools.<br>Explanation of Testing Plan in OT industry.<br>Types of Testing<br>Testing Methodology (PTES) (Pre-requisites and All the phases including tools)<br>Demonstration of information gathering tools like Whois, IP Geolocation etc.<br>Demonstration of Enumeration by NMAP.<br>Understanding of ICS Architecture and its evolution as per NIST.<br>Understanding of Defense in Depth. |
| Module 4 | Intrusion Detection System | Understanding of IDS in OT Industry.<br>Deployment procedure and Demo .<br>Maintenance of IDS .<br>Operations in IDS.<br>Demonstration of all the features of IDS like Assets, Nodes, Asset categrorization, Licenses,<br>Update traces and PCPA files. Analysis features etc<br>Lab exercises covering all the aspects of IDS.<br>Understanding the Integration of IDS with CMC and SIEM.<br>Concept of SOAR in the OT industry.<br>Basic Intro to Fortigate firewal |
| Module 5 | Overvies of IEC 62443 | Covering the Basic fundamentals of IEC62443 important substandards like.IEC62443-1-1,2-1,3-1,3-2. |

# DISTRIBUTED CONTROL SYSTEM(DCS) TRAINING CONTENT

| S.No | Topic | Content |
|---|---|---|
| 1. | Introduction of Control System | Basic understanding of Complete Control System, Network Architecture Difference between DCS, PLC and SCADA<br>Control System Components HMI, Controllers, Engineering station, EWS, Historian<br>- General Controllers in day to day Life<br>- Control Parameters Analog Digital<br>- HMI<br>- Network Components Over view<br>- Over view of System Configuration<br>- 4-20 mA Concept<br>- IOs<br>- Field devices |
| 2. | Description of Distibuted Control System | 1. Detailed DCS Definition,<br>2. Key Features of DCS ,<br>3. Application of DCS,<br>4. DCS Component- Controller Explanation ,<br>- Power suply Brief Explanation ,<br>- I/O Cards Brief Explanation<br>- Field Devices Brief Explanation Valves , Fans, Pipelines,Transmitters.<br>5. Prominent DCS Companies making controllers in the Market and their DCS Names<br>6. Roles of DCS in Automation |
| 3. | Description of Control Cabinets and Marshalling Cabinets | 1. Small Test<br>2. Rebrush from last class.<br>3. Introduction to Quality signal and the concept of IOP/OOP.<br>4. Introduction to IO Modules.<br>5. IO Addressing/Mapping<br>6. Overview of System Cabinet<br>7. Overview of Marshalling Cabinet.<br>8. Industrial Protocols Modbus, OPC, Profibus |
| 4. | Introduction to Engineering Station & Its Functionalities | Introduction to Engineering station<br>-Operating System<br>-System buildup - Defining controllers, Defining HMIs, Defining multicast groups, Printers etc<br>-User definition- RBAC<br>-NTP<br>-Reports<br>-Logic & Graphics<br>-Download to Controller and HMIs<br>-Operator station<br>-OS<br>-HMI Functions<br>-Logic Builder<br>- Algorithms (Function Blocks) - AND , OR , Not , On delay, Off delay Macros- Pump,valve,<br>- Interlocks |
| 5. | Engineering Station Functionalities Continue & OWS | HMI Operator Function<br>Operator function interface<br>Introduction of Main Menu Display, Process Control Display,Graphics symbols static and dynamic<br>Schematic displays<br>Sequence Displays<br>Introduction of Alarm list with its functionalities<br>Group Operation |