



# 3-Days Residential Training Programme on OT Security and AI in Manufacturing

(December 01 - 03, 2025)



**Administrative Staff College of India**

(accredited as उत्कृष्ट by Capacity Building Commission, GoI)



## **PROGRAMME OVERVIEW**

This intensive 3-day programme is designed to equip professionals across critical sectors manufacturing, pharma, energy, BFSI, and critical infrastructure with a comprehensive understanding of Operational Technology (OT) security and the transformative role of Artificial Intelligence (AI) in Industry 5.0 environments.

Grounded in global standards such as IEC 62443, NIST CSF 2.0, ISO 27001/27019, and aligned with emerging Indian regulations including the DPDP Act 2023, the programme combines conceptual depth with practical application. Participants will gain boardroom-ready insights as well as hands-on skills to strengthen OT security and resilience.

## **WHY THIS PROGRAMME?**

- Industry-Agnostic Framework – Flexible design, adaptable across diverse verticals with sector-specific relevance.
- Balanced Learning Approach – Conceptual theory in the morning, labs, demos, and tabletop exercises in the afternoon.
- Future-Ready Content – Focus on AI-enabled predictive, preventive, and proactive defense; micro & nano-segmentation; iSOC-based threat detection.
- Business-Oriented Outcomes – ROI mapping, resilience scoring, downtime impact analysis, and risk-to-rupee translation.
- Hands-On Engagement – Exposure to SCADA fence, Nozomi, iSOC demos, OT-Drishti resilience scoring, and OT-specific crisis simulations.
- Actionable Takeaways – Practical templates, scorecards, blueprints, and reporting models for immediate workplace application.

## **OBJECTIVES**



- Gain a strong foundation in OT security concepts, architectures, and standards.
- Develop practical skills in visibility, situational awareness, and threat detection.
- Understand emerging OT threat vectors and the role of AI in defense strategies.
- Learn to apply compliance frameworks (IEC 62443, NIST CSF 2.0, DPDP Act 2023) for governance.
- Understand the business impact of OT security risks and their relevance to ROI.
- Build actionable roadmaps through simulations, guided scoring, and hands-on workshops.

These objectives are designed to provide participants with a solid foundation in OT security, with practical exposure to threat detection, response, and emerging risks. It covers AI-driven defense, compliance frameworks, and assessing risks in business terms. Participants will also develop actionable roadmaps to strengthen organizational resilience within the immersive Cyber Theme Park (CTmP).





## CONTENT



### Day 1: Foundations of OT Security and Visibility

Topics	
 Theory	<ul style="list-style-type: none"> <li>• The Role of OT in Viksit Bharat &amp; Make in India initiatives</li> <li>• OT Security Fundamentals– Purdue model, industrial protocols, safety vs. security</li> <li>• Segmentation &amp; Zoning – IEC 62443 emphasis</li> </ul>
 CTmP Experiences & Activities	<ul style="list-style-type: none"> <li>• Visibility &amp; Situational Awareness hands-on demo</li> </ul>

### Day 2: Threats, Detection & Response

Topics	
 Theory	<ul style="list-style-type: none"> <li>• Threat intel for OT &amp; emerging vectors</li> <li>• From Convergence-to-Clarity-to-Command   Securing OT with-Wisdom</li> <li>• iSOC vs SOC: telemetry in OT</li> </ul>
 CTmP Experiences & Activities	<ul style="list-style-type: none"> <li>• AI-powered Threat Hunting demo</li> <li>• Loss of View TTX — Interactive simulation with injects &amp; debrief</li> </ul>

### Day 3: Governance & Road-mapping

Topics	
 Theory	<ul style="list-style-type: none"> <li>• Compliance Map deep-dive – IEC 62443, NIST CSF 2.0, DPDP Act 2023</li> <li>• Emerging &amp; Innovative OT Trends</li> <li>• Business Alignment &amp; ROI – risk-to-rupee translation</li> </ul>
 CTmP Experiences & Activities	<ul style="list-style-type: none"> <li>• OT Resilience Baseline: Guided OT security scoring</li> <li>• Boardroom Simulation: Presenting risk dashboard &amp; decisions requested</li> </ul>
Valedictory & Feedback	



## **PARTICIPANT PROFILE**

- Senior Management & Decision Makers – CXOs, Directors, and Plant Heads driving OT/IT convergence strategy and business resilience.
- OT & IT Security Professionals – Security managers, SOC/iSOC analysts, incident responders, and compliance officers.
- Engineering & Operations Teams – Plant engineers, control system managers, SCADA operators, and production supervisors.
- Risk, Compliance & Audit Executives – Experts overseeing governance frameworks, regulatory adherence, and internal audits.
- Policy Makers & Regulators – Representatives from government, PSUs, and critical infrastructure sectors.
- Technology Leaders & Innovators – AI/ML specialists, digital transformation managers, and Industry 4.0/5.0 project leaders.

## **FACULTY**

Dr. Madhusoodanan P.R., Professor and Director at Centre of Excellence in Cyber Defence, will lead the programme. Elevate your cybersecurity expertise with industry veterans. Our team boasts a unique blend of expertise from industry, government, and regulatory bodies, honed over 20 years. Go beyond theory and gain practical skills to excel at the intersection of governance and technology. Embark on a transformative journey led by seasoned professionals who have shaped the landscape of government and IT.

*Organisational sponsorship is essential*

## **VENUE**

The programme is fully residential and the participants will be accommodated in air-conditioned single occupancy rooms. The college does not provide accommodation for the family. The college is Wi-Fi enabled in a comprehensive way.

## **DURATION**

The programme duration is 3 days starting from December 01 - 03, 2025. The participants are expected to arrive a day before commencement and may leave after the conclusion of the programme.

## **PROGRAMME FEE**

**Residential Fee: Rs. 43,700/-** (US \$ 683 for foreigners) plus GST as applicable (presently 18%) per participant. The fee covers tuition, board and lodging, courseware (in electronic form) and other facilities of the College including internet usage.

**Non-Residential Fee: Rs. 37,700/-** plus GST as applicable (presently 18%) per participant. The fee covers tuition, course ware (in electronic form) working lunch and other facilities of the College including internet usage.

A discount of 10% on the Programme fee for three or more participants from the same organisation will be given, provided the payment is credited into our Bank account before **November 28, 2025**.



Note: Kindly forward us the details of the Bank/ Wire transfer of the programme fee through email to: [poffice@asci.org.in](mailto:poffice@asci.org.in) for confirmation.

Bank details are given below:

For Indian Participants:

Bank Account Number 62090698675  
Beneficiary Name Administrative Staff College of India  
IFSC Code SBIN0020063  
Bank Name State Bank of India  
Branch Address Bellavista Branch, Raj Bhavan Road,  
Somajiguda, Hyderabad - 500 082

For Foreign Participants:

Bank Account Number 62090698675  
Beneficiary Name Administrative Staff College of India  
Swift Code SBININBB327  
Bank Name State Bank of India  
Branch Address Bellavista Branch, Raj Bhavan Road,  
Somajiguda, Hyderabad - 500 082.  
Country India

### **MEDICAL INSURANCE**

The nominees are requested to carry with them the proof of Medical Insurance. The sponsoring agency is required to endorse the nominees' medical coverage in the event of hospitalization

### **LAST DATE FOR NOMINATION**

Please use the prescribed/attached form. Last date for receiving nominations is **November 24, 2025**. Kindly contact Programmes Officer for further details (contact details are given at the end of the nomination form).

### **LAST DATE FOR WITHDRAWAL**

**November 27, 2025**. Any withdrawals after this date will entail forfeiture of fee paid, if any.

### **ASCI ALUMNI ASSOCIATION**

Participants of the College programmes will automatically become members of the ASCI alumni association.

### **CERTIFICATE OF PARTICIPATION**

The College issues a Certificate of Participation on conclusion of the programme.

Programme Director

**Dr Madhusoodanan P R**

Email: [mpr@asci.org.in](mailto:mpr@asci.org.in)

Administrative Staff College of India (ASCI) is taking all the precautionary measures and following all the norms (in light of COVID 19) to provide a safe environment for the participants who are visiting our Campus to attend the Training Programmes.



## ABOUT ASCI

*“I need not tell you how important I feel this institution is, not because it is the first in Asia or third in the world, but because obviously, it performs a task which is of high importance in the present state of our country, perhaps of other countries too.”*

*-- Pandit Jawaharlal Nehru, the First Prime Minister of India during his visit to the College on 23 Oct. 1958*

Established in 1956, it is the first and foremost institution of its kind in the country. Set up as an institution with a difference at the joint initiative of both the Government of India and the industry, it is an autonomous, self-supporting, public-purpose institution with the objectives of being a think- tank for policy inputs and to build the capacities of practicing professionals in the management of government and business enterprises.

ASCI is an institution of excellence and national importance, and a registered society by constitution. At the apex of its governance structure is a policy-setting, oversight body, the Court of Governors (CoG). It is a virtual who's who of eminent professionals, public figures and industry leaders who have distinguished themselves in their respective fields of specialization in education, enterprise, administration, management and governance spanning a wide variety of sectors like agriculture, banking, engineering, economics, judiciary, law, manufacturing, science and technology and public administration.

Capacity building and applied research assignments constitute the bedrock of the activities of ASCI. They have larger societal benefit and public good as the key cornerstones. ASCI integrates economic, social, cultural, financial, technological, regulatory, human, organizational, and environmental aspects into its management training and action-research initiatives for addressing issues of topical interest and current concern to the government and the industry. With its focus on policy, strategy, management, governance, regulation and socio-economic impact evaluation, ASCI brings knowledge inputs, informed advice, best practice and innovative ideas to bear on its training, policy advocacy, advisory and implementation-assistance services. In the process, it provides opportunities to State and Central Government Departments and Ministries in India and abroad as well as the industry, to develop sustainable policies, devise inclusive strategies and deploying robust plans towards improved economic performance, human development and social progress.

As a result, ASCI enjoys the trust and confidence of the government and industry and is relied upon and entrusted with assignments of varied scale, scope, sweep, spread and specialization.



## ABOUT ESF LABS LIMITED

*“ESF Labs Limited brings cyber resilience with innovation and excellence.”*

ESF Labs is a recognized Cyber Security and Digital Forensics Research Centre with over a decade of experience, focusing on delivering effective and innovative solutions and capacity building to clients. As a CERT-INDIA empanelled entity, ESF Labs, aims at assisting its customers to combat the various cyber threats they face through training/capacity building and solutioning. As a trusted partner, ESF Labs, works closely with corporations, law enforcement agencies, and governments to provide consultation services that enhance the client's cybersecurity and digital forensic capabilities. The solutions delivered are designed to minimize the risk exposure of organizations and also providing a strong foundation in cybersecurity and digital forensic posture.

## ABOUT CYBER THEME PARK (CTmP) AN EXPERIENCE CENTRE



Cyber Theme Park is an experience centre that transforms theoretical knowledge into practical wisdom. It is a dynamic environment where individuals come together to engage in meaningful interactions, exchange ideas, and challenge their existing perspectives. We believe that true learning occurs when theoretical knowledge is applied and tested in real-life scenarios & situations. Our aim is to bridge the gap between theory and practice by creating an immersive experience with 4 distinct mindsets Attacker, Protector, Defender, and Overseer that transforms abstract concepts into tangible outcomes. The programme seamlessly blends theory with practical, immersing you in the world of attacker and defender techniques.



## Nomination Form

### 3-Days Residential Training Programme on OT Security and AI in Manufacturing (December 01 - 03, 2025)

#### Nominee's Contact Information

Name (Mr/Ms)	:	_____	Date of Birth:	_____
Designation	:	_____	Qualification:	_____
Organisation	:	_____		
Address	:	_____		
Phone(s)	:	Office: _____	Mobile: _____	Home: _____
e-mail	:	_____	Fax:	_____

#### Sponsors Details

Name of the Sponsoring Authority:	:	_____	Designation:	_____
Organisation	:	_____		
GSTIN Number:	:	_____		
Address	:	_____		
	:	_____	Pincode:	_____
Phone(s)	:	Office: _____	Mobile: _____	
e-mail	:	_____	Fax:	_____

#### Fee particulars

Amount Payable	:	_____	Mode of Payment (DD/Ch/NEFT):	_____
Name of the Bank	:	_____	Date of Instrument/Transfer:	_____
Instrument Number:	:	_____	UTR Number for NEFT	_____

#### Medical Insurance:

Name of the Insurance Agency	Policy Number	Validity upto
Note: Coverage should be available in Hyderabad, India.		

#### Signature and Official Seal of the Sponsoring Authority:

**NOTE:** Forward nomination form to: **Mr. G. Sreenivasa Reddy, Programmes Officer,** Administrative Staff College of India, Bella Vista, Hyderabad-500 082. Phone: 0091-40-66534247, 66533000, Mobile: 9246203535, Fax: 0091-40-66534356, e-mail: [poffice@asci.org.in](mailto:poffice@asci.org.in)