

## Senior Security Engineer - OT

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Company: Help AG

Location: Abu Dhabi

Category: healthcare-practitioners-and-technical

Senior Engineer, OT Cybersecurity provides technical support, administration, and maintenance necessary for OT Cybersecurity Services for Company's Operational Technology (OT) and OT-IT integration. Senior engineer, OT cybersecurity will play a key role designing, operating, and maintaining cybersecurity infrastructure and OT Cybersecurity controls based on the approved Cybersecurity Standards and reference architecture.

### Responsibility

#### **Operate and Maintain [OM]**

Provides the support, administration, and maintenance necessary to ensure effective and efficient of OT/ICS Cybersecurity systems performance and availability

Perform asset management/inventory of OT cybersecurity resources and it is supported infrastructure resources.

Perform system administration on specialized cyber defense tools and supported infrastructure for OT/ICS environment (e.g., antivirus, application whitelisting, firewalls, IPS/IDS, Data Diodes, secure remote support access, secure file transfer, passive security monitoring) to include installation, configuration, maintenance, backup, and restoration as per operational procedures.

Administer accounts, network rights, and access to OT/ICS Cybersecurity systems and equipment.

Adhere to company OT cybersecurity metrics and OT Cybersecurity KPIs.

Maintain security baseline configuration for OT/ICS Cybersecurity Systems and supported infrastructure according to organizational policies and operational standards.

Assist and support OT/ICS systems custodians to apply the applicable security baseline configuration on OT/ICS systems.

Patch OT/ICS Cybersecurity systems and infrastructure vulnerabilities and update security contents to ensure reliability and safeguarded against known threats.

Continuously monitor OT/ICS Cybersecurity systems and supported infrastructure availability, functionality, integrity, efficiency, capacity, and performance.

Conduct periodic system maintenance including health check, configuration review, access and permission review, functionality, and effectiveness testing on OT/ICS Cybersecurity systems and supported infrastructure as per the defined standard.

Troubleshoot, diagnose, and resolve reported OT/ICS Cybersecurity services incidents, problems, and events as per the SLA.

Participate in diagnosing network connectivity problem within OT/ICS environments.

Maintain documentation for all OT/ICS Cybersecurity systems security implementation, standard operating procedures, and maintenance activities and update as necessary.

Coordinate all actions with OT systems custodians to ensure the sustenance of OT Cybersecurity solutions

Plan and recommend modifications or adjustments based on exercise results or system environment.

### **Protect and Defend [PR]**

Identifies, analyses, and mitigates cybersecurity threats to Operation Technology (OT)

systems and/or networks.

Uses defensive measures and information collected from defence tools (e.g., IDS alerts, firewalls, network traffic logs) to identify, analyze, and report events that occur or might occur within the network and participate in preparing a standard remedial plan of actions to protect OT systems, and networks from threats.

Implement system security measures to resolve vulnerabilities, mitigate risks and recommend security changes in accordance with established procedures and standards to ensure production continuity, resilience, and safety of OT/ICS Systems.

Examine network topologies to understand data flows through OT/ICS network and interfaces between OT/ICS networks and systems.

Work with stakeholders to resolve computer security incidents and vulnerability compliance within OT/ICS networks.

### **Securely Provision [SP]**

Conceptualizes, designs, and procures Operation technology (OT) systems and networks, with responsibility for Cybersecurity aspects.

Support OT/ICS projects life cycle from Cybersecurity perspective by defining OT Cybersecurity requirements - part of Design General Specification (DGS), Front End Engineering Design (FEED), Functional Design Specification (FDS), Detailed Design Specification (DDS) during EPC phase, Cyber Security Factory Acceptance Test (FAT), Cyber Security Site Acceptance Test (SAT), Site Integration Test (SIT), etc..

Ensures that the stakeholder security requirements necessary to protect the organization's mission and operation processes in OT/ICS are adequately addressed in all aspects of architecture including reference models, segment and solution architectures, and the resulting systems supporting those missions and operational processes.

Participate in design system security controls and measures in accordance with established procedures and standards to ensure Safety, integrity, availability,

confidentiality, authentication, non-repudiation of OT/ICS Systems along with internal and external stakeholders.

### **Other Duties**

Collaborate with HSE, Enterprise Risk, Emergency Response Center, Site's Control Operation Rooms and other Business and function units within as technical advisor on OT/ICS Cybersecurity matters.

Support Cybersecurity risk assessments, gap assessments and audits activities within OT/ICS environment.

Facilitate the OT Security Incident response with relevant Cybersecurity incident response team. Mentor and guide new and emerging OT Cybersecurity engineers within the team.

Plan, supervise and coordinate all activities in the assigned area to meet functional objectives.

Train and develop the assigned staff on relevant skills to enable them to become proficient on the job and deliver the respective business objectives.

Provide input for preparation of the Function / Division / Department / Section budgets, assist in the implementation of the approved Budget, and work plans to deliver business objectives.

Implement approved Function / Division / Department / Section OT Cybersecurity policies, processes, systems, standards and procedures in order to support execution of the work programs in line with Company and International standards

### **Qualification and Skills**

6 years of experience in IT Security systems with minimum 3 years in administrating and engineering Systems Security in OT/ICS environment with in-depth technical and

business knowledge, spanning a range of system security hardware, software products and solutions Or equivalent experience in OT process automation systems with minimum 3 years in operating, maintaining, or engineering in Industrial environment within Oil & Gas sector and 3 years in administrating and engineering Systems Security in OT/ICS environment with in-depth technical and business knowledge, spanning a range of system security hardware, software products and solutions.

Exposure to industrial operations and production technologies covering Industrial Control Systems, SCADA/DCS systems and related cyber security technologies in the energy sector.

Understand and troubleshoot fault areas in industrial automation and communication systems.

Knowledge of risk management processes (e.g., methods for assessing and mitigating risk).

Knowledge of service management concepts for networks and related standards (e.g., Information Technology Infrastructure Library, current version [ITIL]).

Knowledge of computer networking concepts and protocols, and network security methodologies.

Knowledge of network security architecture concepts including topology, protocols, components, and principles (e.g., application of defense-in-depth, demilitarized zones, network segmentation).

Knowledge of the rage of existing OT systems (e.g., DCS, SCADA, PLC, Instruments)

Knowledge of Industrial network topologies, network redundancy protocols and industrial wireless technologies (e.g. ISA100 & Wireless HART)

Knowledge of industrial application protocols and measures to secure them (e.g., OPC, Modbus, PROFINet, Vnet/IP, Ethernet/IP, DNP3 and fieldbus protocols)

Knowledge of system administration, network, and operating system hardening techniques.

Knowledge of different classes, types and stages of cybersecurity attacks targeting OT/ICS environments.

Skill in assessing security controls based on cybersecurity principles and tenets. (e.g., IEC62443, CIS CSC, NIST SP 800-53, Cybersecurity Framework, UAE IA Standards etc.).

Skill in configuring and utilizing network protection components (e.g., Firewalls, VPNs, network intrusion detection systems, Data Diodes).

Skill in protecting a network against malware. (e.g., NIPS, anti-malware, restrict/prevent external devices).

Skill in configuring and utilizing software-based computer protection tools (e.g., software firewalls, antivirus software, application whitelisting).

Skill in conducting OT/ICS Cybersecurity system and supported infrastructure planning, management, and maintenance.

Skill in identifying and anticipating system/server performance, availability, capacity, or configuration problems.

### **Professional Certifications – preferred**

Mandatory vendor-neutral professional certification: Global Industrial Cyber Security Professional (GICSP)

ISA/IEC 62443 Cybersecurity Fundamentals Specialist

ISA/IEC 62443 Cybersecurity Maintenance Specialist

### **Benefits**

Health insurance with one of the leading global providers for medical insurance.

Career progression and growth through challenging projects and work.

Employee engagement and wellness campaigns activities throughout the year.

Excellent learning and development opportunities.

Annual flight tickets to home country.

Inclusive and diverse working environment.

Flexible/hybrid working environment.

Open door policy.

## About Us

Help AG is the cybersecurity arm of e& enterprise (formerly Etisalat Digital) and provides leading enterprise businesses across the Middle East with strategic consultancy combined with tailored information security solutions and services that address their diverse requirements, enabling them to evolve securely with a competitive edge.

Present in the Middle East since 2004, Help AG was strategically acquired by e& (formerly Etisalat Group) in 2020, hence creating a cybersecurity and digital transformation powerhouse in the region.

Help AG has firmly established itself as the region's trusted IT security advisor by remaining vendor-agnostic, trustworthy, independent, and maintaining its focus on all aspects of cybersecurity.

With best of breed technologies from industry-leading vendor partners, expertly qualified service delivery teams and a state-of-the-art consulting practice, Help AG delivers unmatched value to its customers by strengthening their cyber defenses and safeguarding their business.

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