CDFS

CBIT Digital Forensics Services

PRESENTS

SOC-Class

BY

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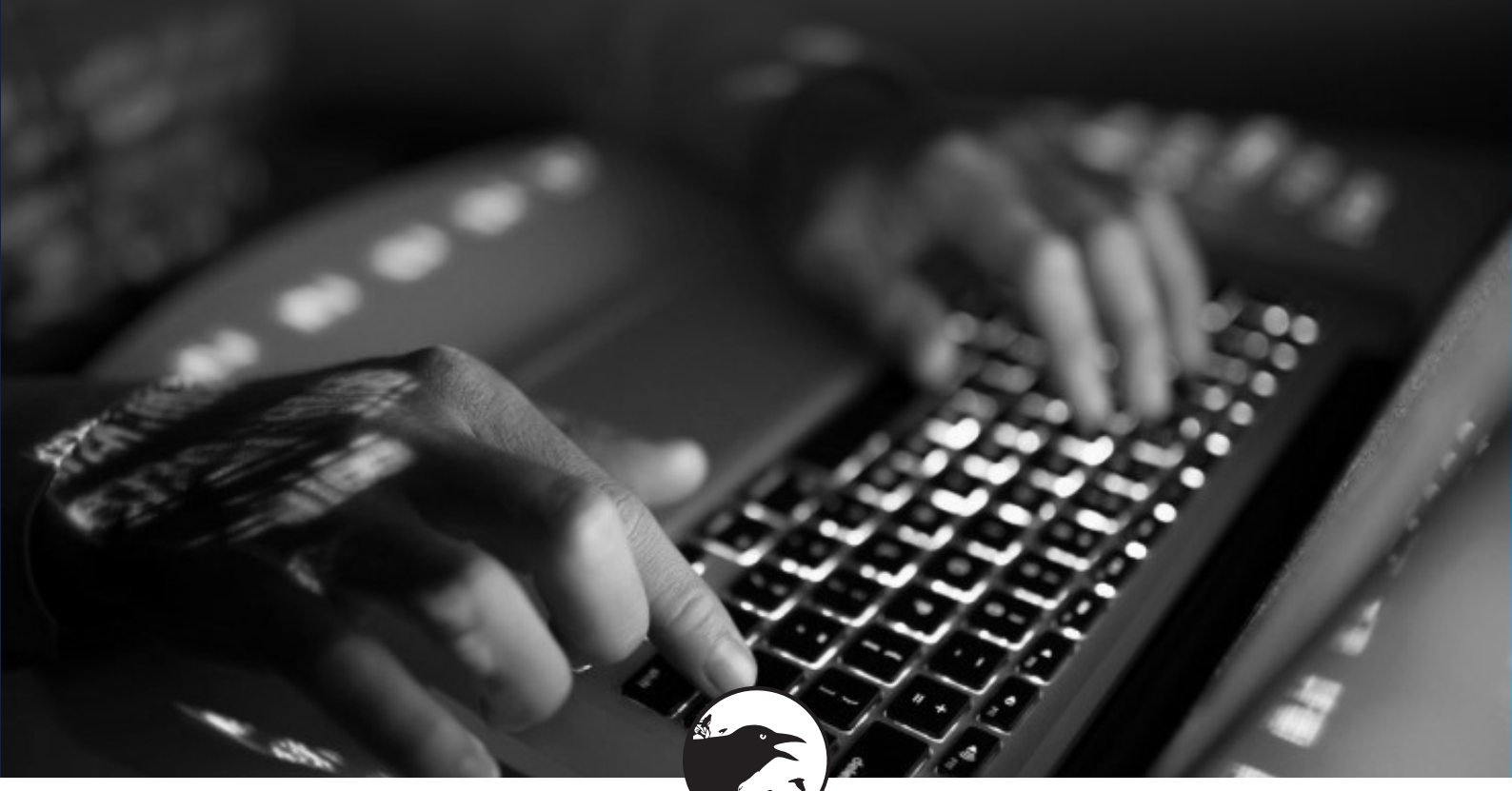

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Executive Summary

The class provides the following:

Guidance on business orientation, use case development, hunting techniques	Reference model for all functions of a SOC: monitoring, response, intelligence, metrics	Guidance on developing internal capability and strategic outsourcing	Detailed discussion of technology, process, and analytical staff relations and optimization	Sequence of actions for building a SOC, or cross reference an established SOC's maturity

This course provides a comprehensive picture of a Cyber Security Operations Center (CSOC or SOC).
Discussion on the technology needed to run a SOC are handled in a vendor agnostic way.

In addition, technology is addressed in a way that attempts to address both minimal budgets as well as budgets with global scope. Staff roles needed are enumerated. Informing and training staff through internal training and information sharing is addressed. The interaction between functional areas and data exchanged is detailed. Processes to coordinate the technology, the SOC staff, and the business are enumerated.

After attending this class, the participant will have a roadmap (and Gantt chart) for what needs to be done in the organization seeking to implement security operations. Ideally, attendees will be SOC managers, team leads in security specializations or lead technical staff, security architects. CIO, CISO or CSO (Chief Security Officer) is the highest level in the organization appropriate to attend.

The inclusion of all functional areas of security operations is intended to develop a standardized program for an organization and express all necessary capabilities. Admittedly ambitious, the intention of the class is to provide a unified picture of coordination among teams with different skillsets to help the business prevent loss due to poor security practices. I have encountered detrimental compartmentalization in most organizations. There is a tendency for a specialist to look only at her piece of the problem, without understanding the larger scope of information security within an organization.

Organizations are likely to perceive a security operations center as a tool, and not the unification of people, processes, and technologies.

This class is not technical in nature, but someone without knowledge of IT common practices and Information Security fundamentals (such as the Confidentiality, Integrity, and Availability triad) will be lost very quickly. This is not a class to send SOC analysts, but is great for the technical lead and manager.

Topic List

Class Orientation

- A Story About Telling Stories
- First Principles and Terminology

Business Alignment

- Steering Committee – Phase 1: Design
- Requirements
- Impact
- Charter

SOC Design

- Functional Components
- Presumed Organizational Support Functions
- Functional Arrangements
- Operational and Architectural
- Considerations
- SOC Organizational Position
- Multi SOC Models
- SOC and IT Relations
- Size and Maturity
- Size: What Does It Look Like?
- Outsourcing Advice

Overall Program of Operations

- Intro
- Command Center
- Network Security Monitoring
- Threat Intelligence
- Incident Response
- Forensics
- Self-Assessment

Business Alignment (2)

- Defensive Topology
- Steering Committee: Phase 2: Build

SOC Design

- Functional Area Work Products
- Technology Selection
- Physical SOC Build
- Technology Selection
- Cultural and Organizational Influence on
- SOC Requirements and Performance
- Orchestration and Automation

Analysis

- Analytical Methodology for the SOC
- Applied ACH
- Available Frameworks for Analysis
- Analytical Methodology: Wrap Up

Staff

- Roles
- Hiring
- Onboarding
- Training
- Meetings
- Retention

Operations

- Tempo
- Pre-Forensics
- Threat Hunting
- Use Case Development

Metrics

- Introduction
- Appropriate Audience
- Reported
- Steering Committee: Phase 3: Operations
- Service Level Objectives
- SOC Internal Health and Performance

Maturity

- Introduction
- SOC-CMM Walkthrough

Processes

- Process list
- Sequence Walk Through

Case Study

- Phin Phisher
- Insiders
- Equifa

SECURITY OPERATIONS CENTER
Maturity Assessment
Montance® LLC

- **I have a SOC already, why would I need a SOC Maturity Assessment?**

Threats to your environment don't respect compliance standards.

Threats to your environment study, plan, and execute their efforts according to the most likely path to their success. Your business reacts to market factors, customer demand, supply chain, and opportunities. To do so, strategy is reviewed and adjusted. Likewise, a SOC maturity assessment assures your defensive resources are most effectively defending against current threat techniques.

Security Operations Maturity Assessment

Framework selection: | ATT&CK® or SOC-CMM | Threat / Risk Information

ATT&CK® is a registered trademark of MITRE.org

Documentation Collection

Business Objectives | Existing SOC Architecture, Capability, Metrics

Framework crosswalk

Analyze providedartifacts, direct further collection as needed

Results Report

Deliver report of changes to align SOC performance with objectives

- **Flexible, based in business specific needs, using proven, objective, industry standard methodology, performed by an industry expert**

- **Document review only**

  Technical assessment, red-teaming, adversary simulation available on a customized basis

- **Assessment schedule is three months in duration**

  Depends on organization's ability to collect and provide requested materials

- **Delivered Guidance:**

  adjusted metrics, SOC operations modifications plan: use cases, threat hunting, operational changes, staff recommendations, self-improvement program

SOC-Class: Private Onsite Training

The content to be delivered in the private session is typically delivered over four days.

What is needed to proceed?

A trustworthy, external, objective party familiar with varying deployments of security operations, global compliance issues, and the technical needs of running a SOC is needed. Your organization's willingness to review its current security operations practices, and deploy both strategic and tactical adjustments to its current course is needed.

PRICE

$6,000
per person ex GST

OR

4 VOUCHERS
per person ex GST

* Vouchers can only be used for courses delivered by CDFS at our training facility or via Virtual Instructor-Led Training.