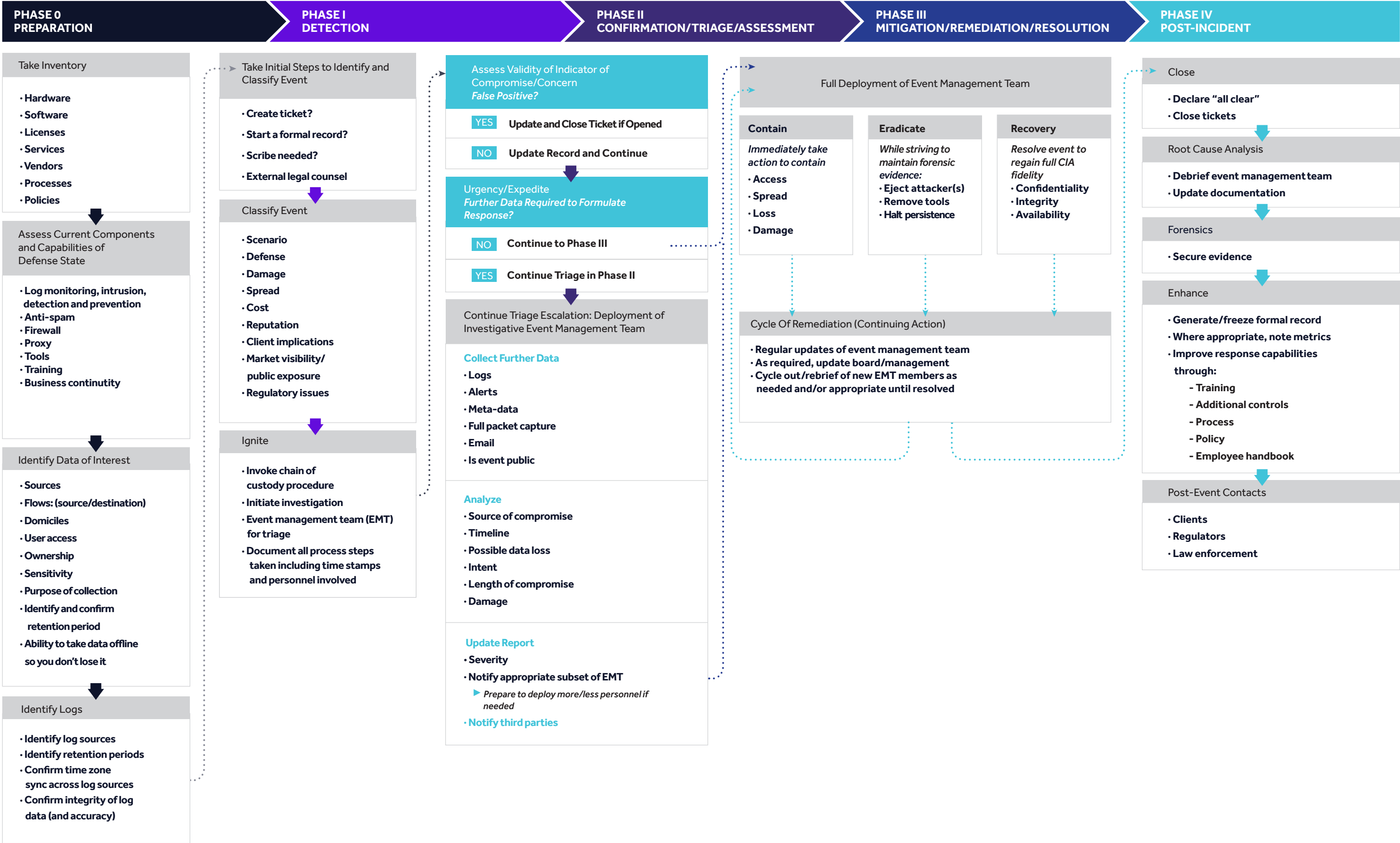
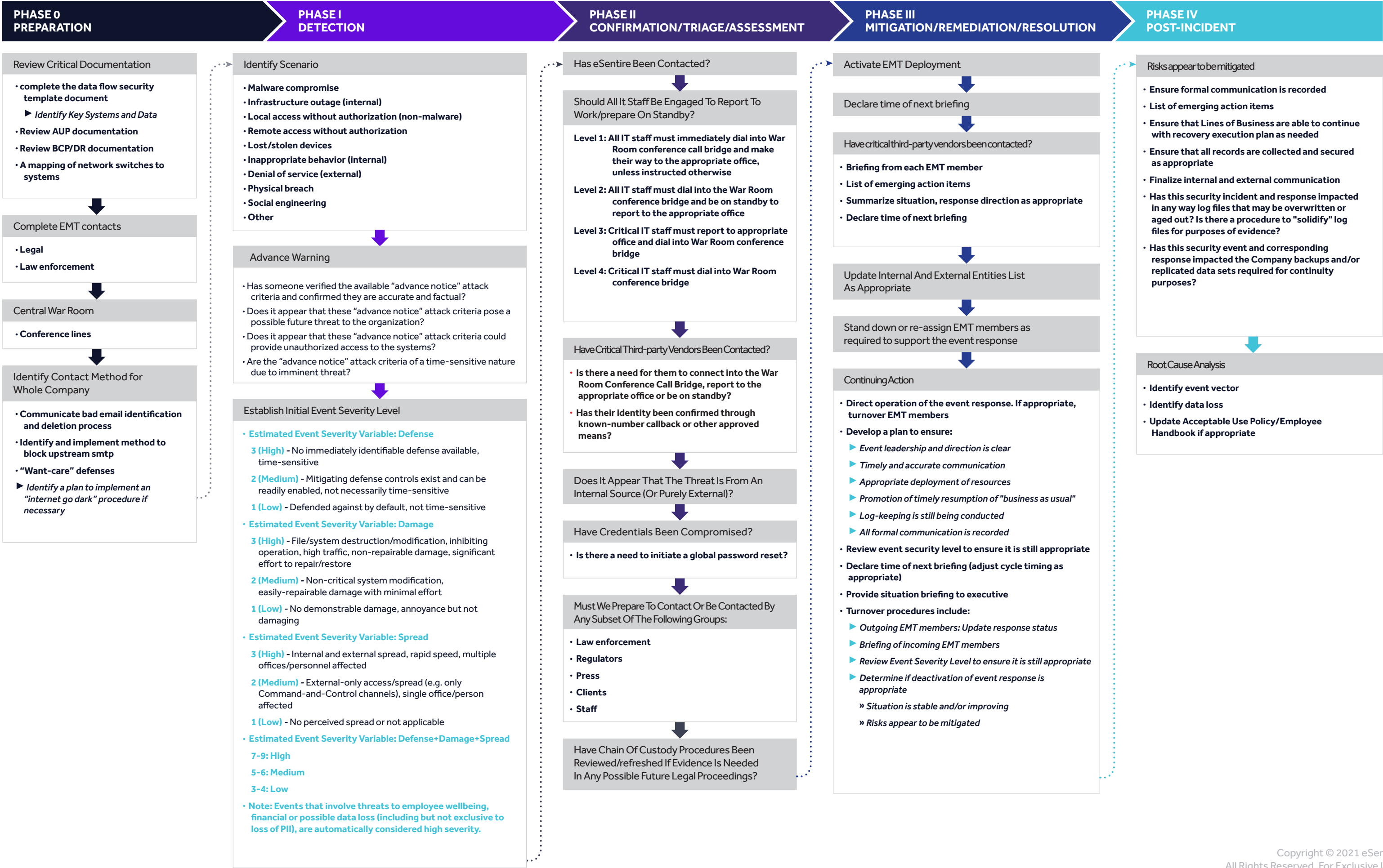


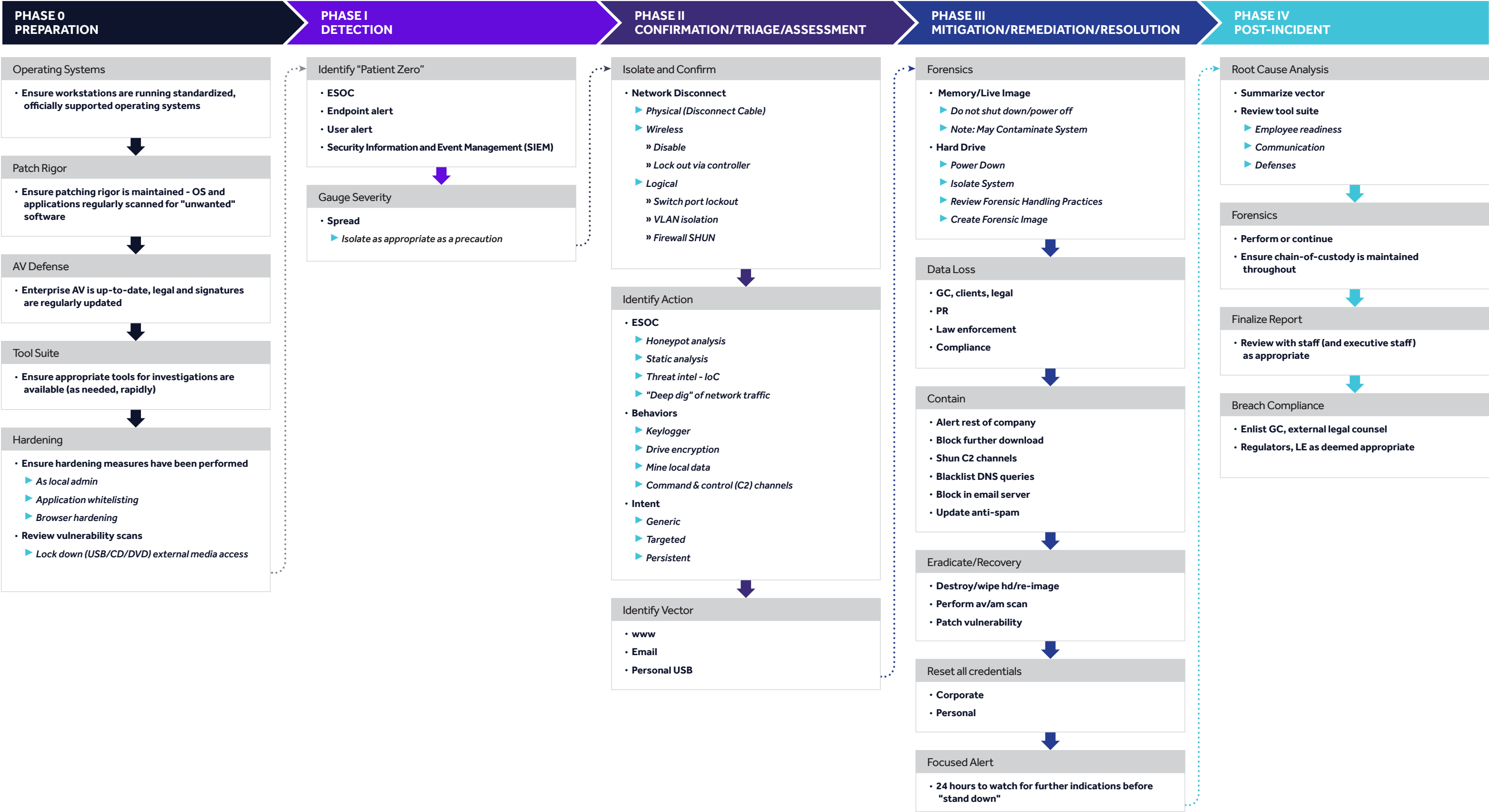
Pragmatic Security Event Management Playbook

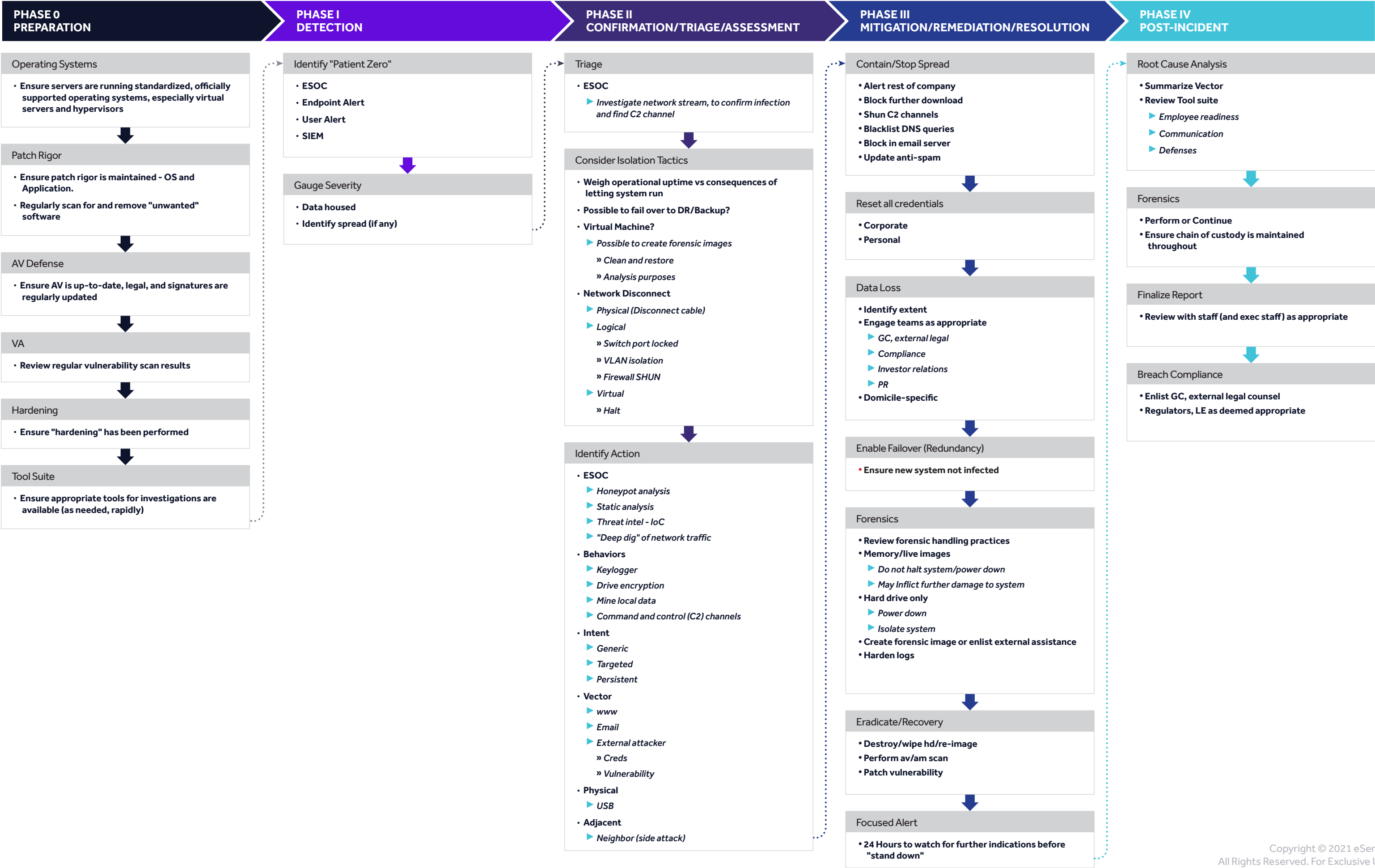
Malware Compromise - Ransomware - Infrastructure Outage - Local Access without Authorization
Successful Remote Access without Authorization - Lost/Stolen Devices - Inappropriate Behavior
Cloud Service Access w/o Authorization - Data Loss/Extrusion - Direct Financial Loss
Denial of Service (Exteranal) - Physical Breach - Social Engineering

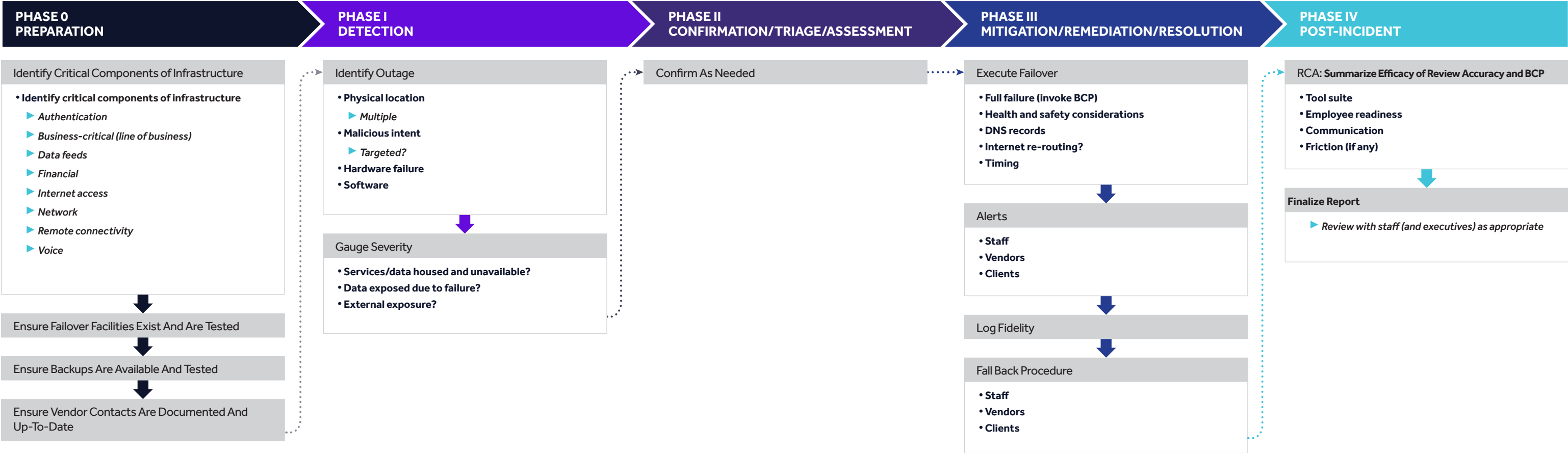


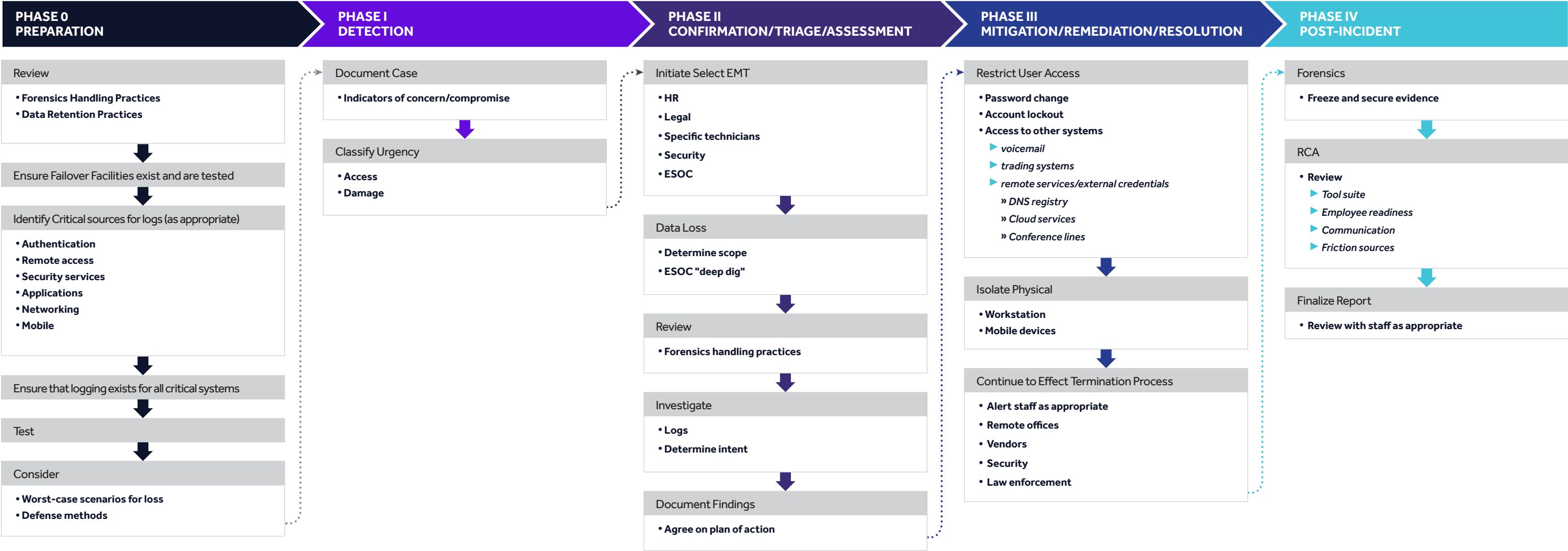


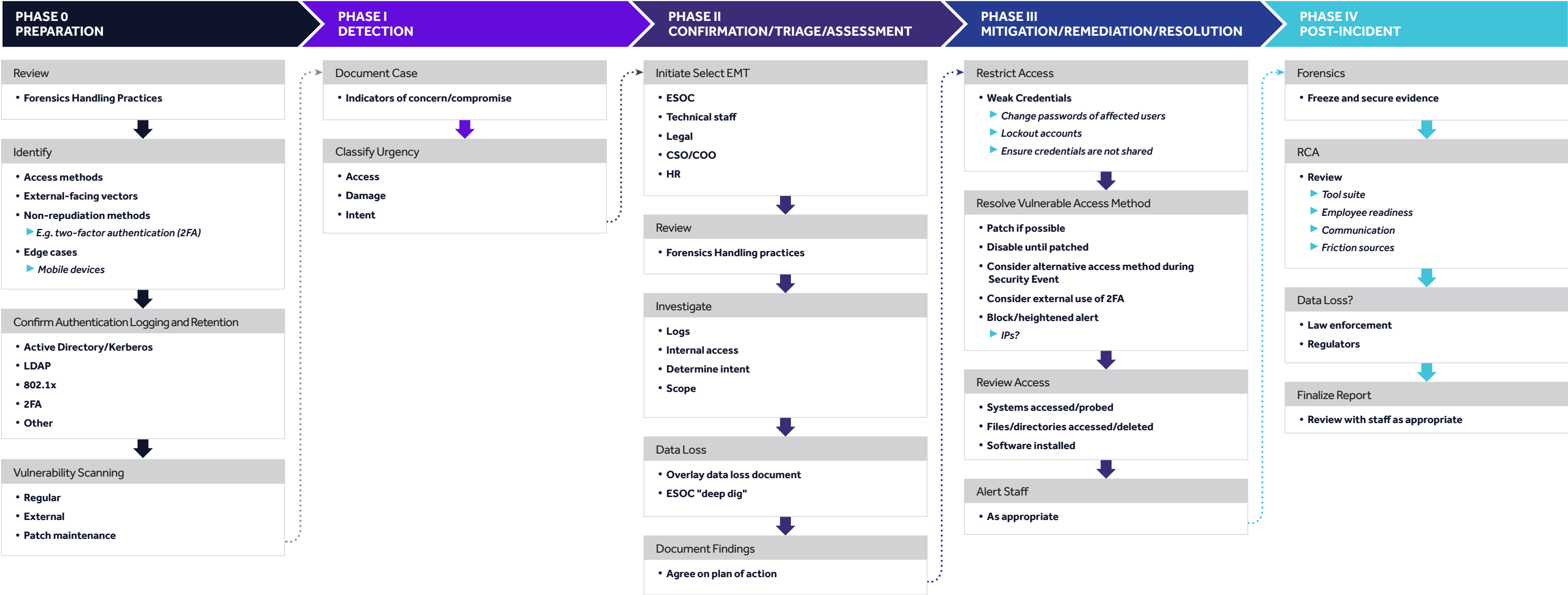


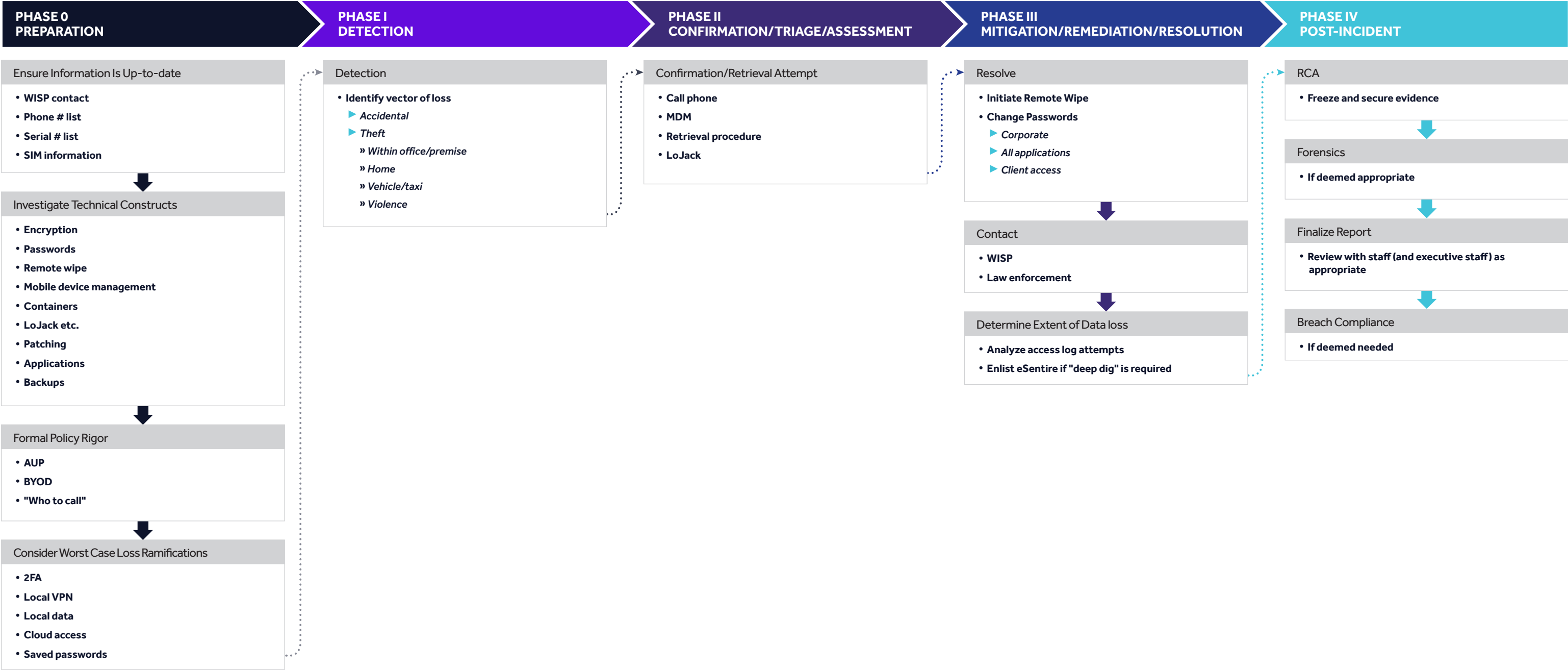


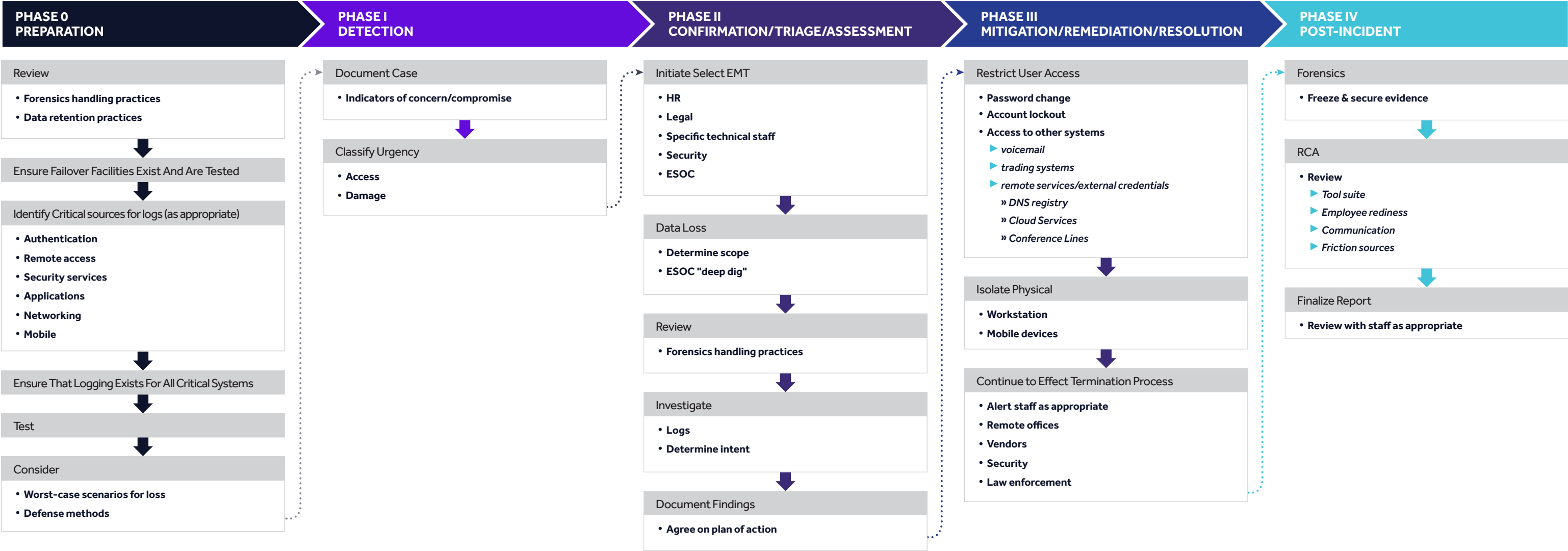


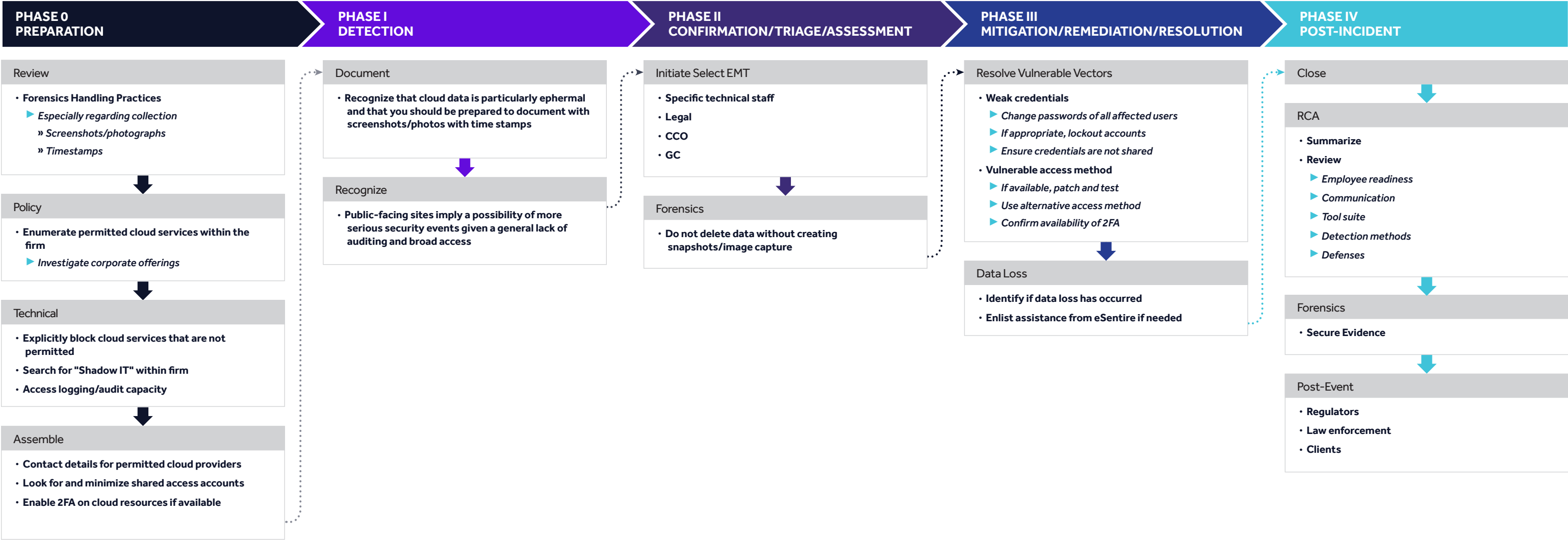


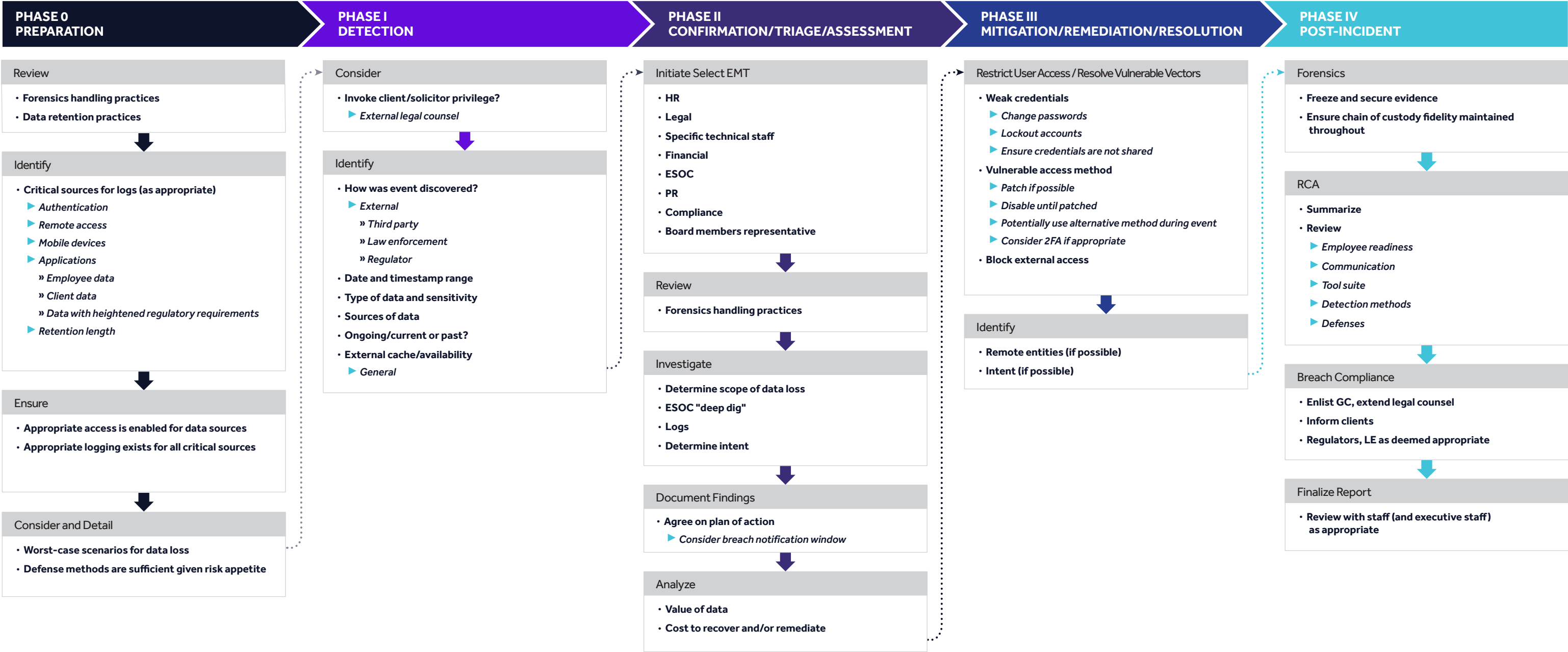




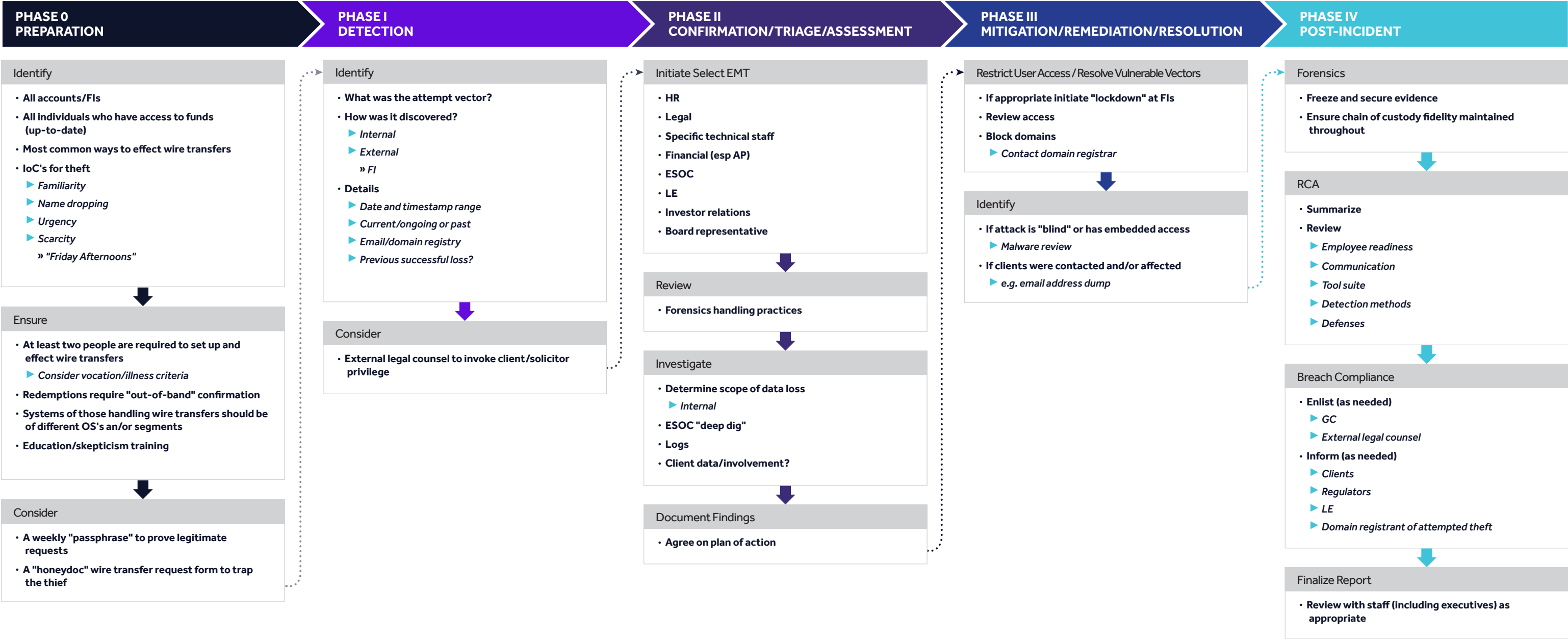


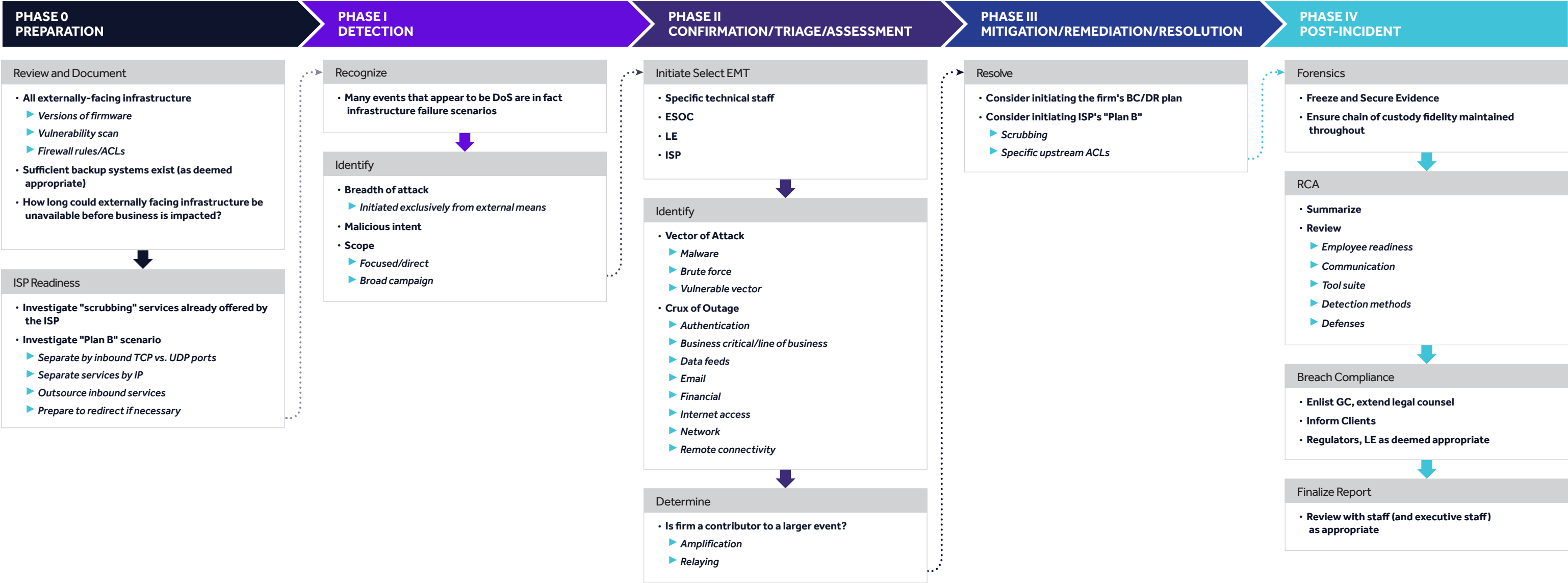


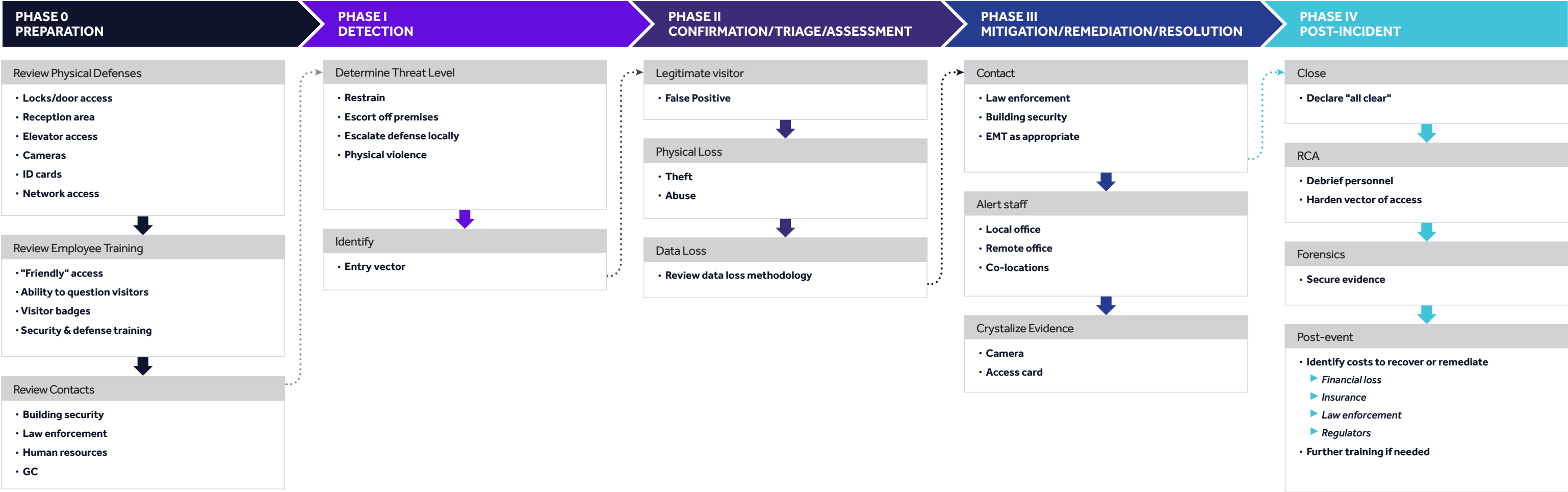


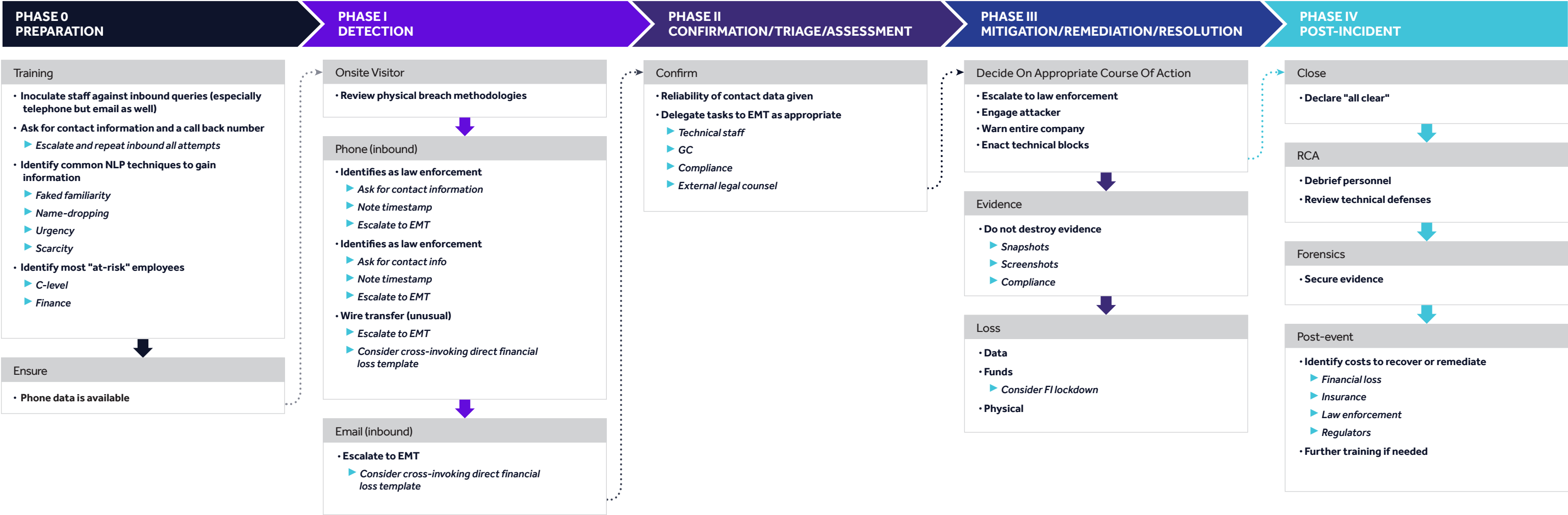


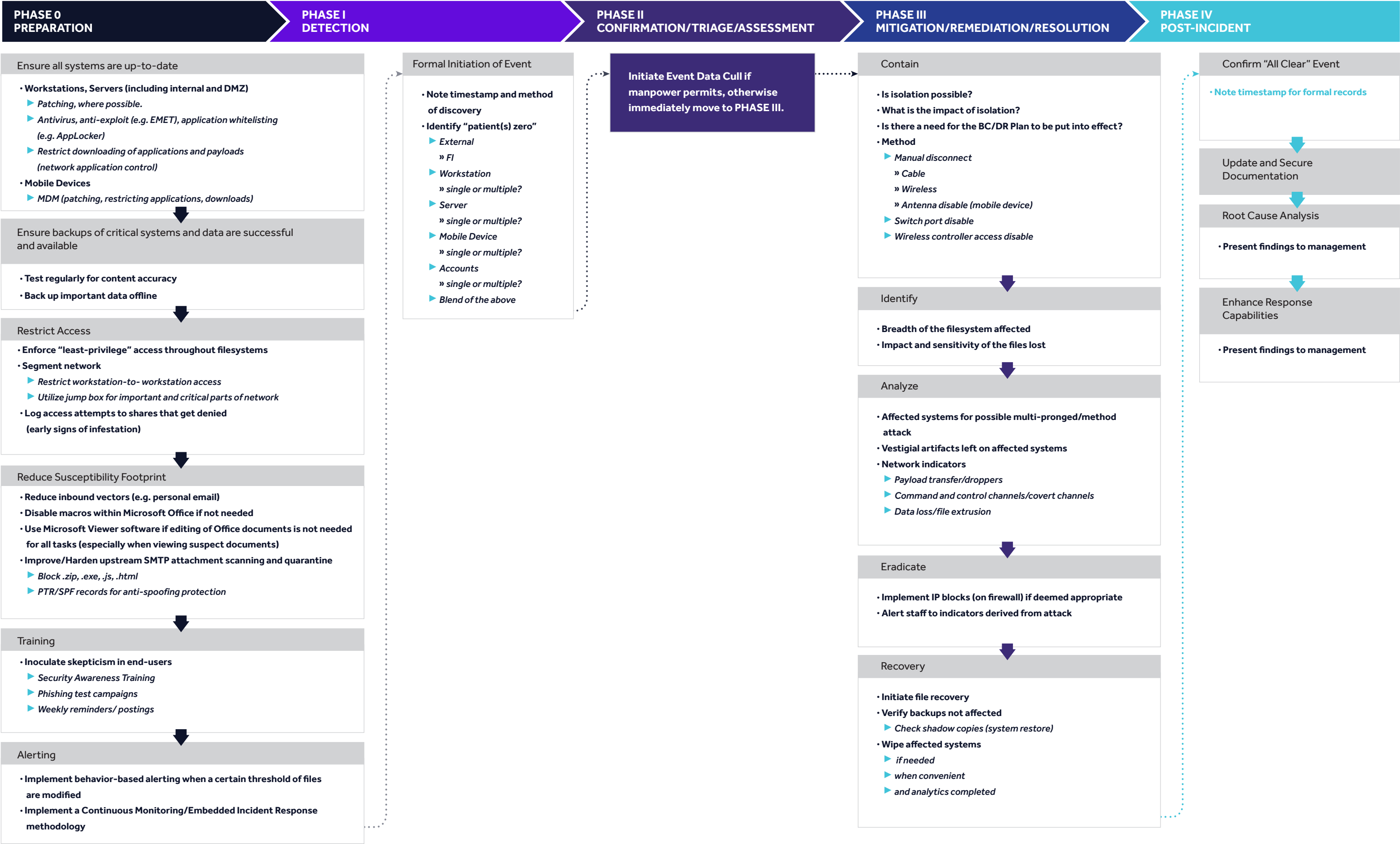
Direct Financial Loss (Non-Physical Theft, Including Attempts)











Purpose of Playbook

The eSentire Pragmatic Security Event Management Playbook aims to provide structure and guidance when responding to a variety of security events that require a concerted response. It lists the members of the security event management team (EMT) with contact information, describes the hierarchy, defines their responsibilities and provides a structure to deal with an evolving situation.

Each organization differs in culture, hierarchy, critical data and systems. As such, it is critical that this framework be modified to best reflect the actions to take when an event necessitating action occurs. No “one size fits all” security event management program exists.

The first 24 hours after a security event is identified are critical to restore functionality, identify and mitigate threats; identify the appropriate blend of forensic analysis to perform versus returning to fully operational (“all-clear”) status and to comply with fiduciary and legal responsibilities. The Pragmatic Security Event Management Playbook is intended to guide the EMT through the “fog of war” during an event to ensure that crucial steps are not missed and that steps to event resolution are agreed upon in advance.

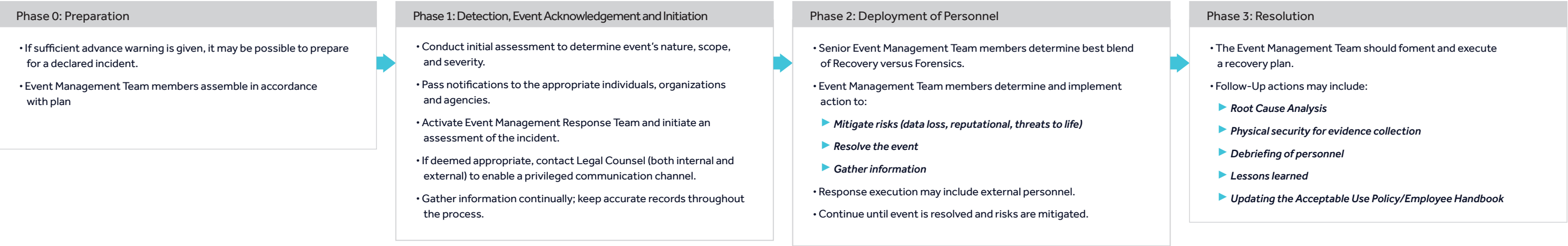
Executive Summary

- The overall purpose of this document is to provide guidelines to protect, preserve and ensure the availability, integrity and confidentiality of the company’s information and network assets, regardless of format. In order to accomplish this goal, the program has the following objectives:
- Within a predefined framework, control and manage unauthorized access or computer attack incidents
 - Permit for the timely investigation of incidents, given the defined priority (taking into account each event’s severity)
 - Take all measures as appropriate to contain and control damage to customers (including employees) resulting from the security incident and to preserve evidence related to the incident
 - Return to normal operating conditions as quickly as possible by mitigating ongoing computer attacks or by executing a timely recovery
 - As appropriate, notify the regulatory and law enforcement authorities and affected parties of the security event in accordance with applicable law

Event Response Priorities

1. Ensure the safety of staff.
2. Fulfill key fiduciary responsibilities and legal obligations.
3. Protect public, shareholder and investor confidence.
4. Resume business operation as soon as feasible.
5. Ensure financial loss will not exceed tolerances.
6. As best as possible, fully document actions taken, with care taken to not destroy evidence, while maintaining a forensic chain of custody.

Four Phases of Event Management Team Operations



Event Management Team (CORE)

Event Management Team Leader

- Lead event management team
- Activates event management organization
- Acts as incident commander in order to ensure a coordinated, timely and effective response to threats
- Coordinates assessment of threat/incident
 - ▶ *Reviews event severity level*
 - » *Confirm*
 - » *Modify*
 - » *Escalate as needed*
- Acts as liason to executive team
 - ▶ *Receives direction as appropriate*
- Ensures appropriate teams/personnel are assembled as appropriate to respond to event
- Declares completion of event
- Cotordinates root cause analysis post-event
- Participates in, and coordinates event management drills, exercises, training
- Ensures that event management response procedures are appropriate going forward

Facilities/Physical Security Representative

- Provides assessment of facility-related issues
 - ▶ *Severity level*
- Coordinates facility-related response
 - ▶ *Security of affected facilities*
 - ▶ *Restore damaged facilities*
 - ▶ *Obtain additional space if required*
- Provide intelligence and assessment of threats
- Liaise with external entities to gather/evaluate threats
- Coordinate physical security response associated with proposed/planned response
- Participates in root cause analysis post-event
- Participates in event management drills, exercises and training

Line of Business Representative (one from each Line of Business)

- Advise on the business impact of events
 - ▶ *Severity*
 - ▶ *Proposed response*
 - ▶ *Recovery actions*
- Provide material as appropriate to public affairs/communications to permit crafting of stakeholder messaging as appropriate
- Participate in root cause analysis post-event
- Participate in event management drills, exercises and training

Event Team Coordinator

- Assist event management team leader
- Monitor events that could impact and/or require escalation to the event management team
- Gather information regarding threats/events with potential to affect company
- Make recommendations regarding:
 - ▶ *Assembling the event management team*
 - ▶ *Improving the event management process*
- Acts as Proxy for event management team leader when tasked by same
- Notify event management team as needed
- Activate event management command center
- Participates in root cause analysis post-event
- Assist in the design and coordination of event management drills, exercises and training

Compliance/Risk/Finance Representative

- Advises on financial aspects of proposed/planned response
 - ▶ *Estimate costs to determine appropriate extent of response*
 - ▶ *Allocate appropriate sources of funding to cover response activity*
 - ▶ *Coordinates accounting for expenditurest*
- Help to develop effective response actions while minimizing financial impact
- Coordinate insurance issues (as appropriate)
- Advises on issues regarding regulation with financial impact (e.g. privacy)
- Participates in root cause analysis post-event
- Participates in event management drills, exercises and training

Human Resources Representative

- Advises on HR issues associated with proposed or planned response activities and severity level
- Coordinate employee and dependent support programs
- Acquire temporary personnel or arrange to redeploy personnel based on requirements
- Arrange for transportation/lodging for redeployed personnel
- Advise on compensation/benefits
 - ▶ *Including medical, health risks, assistance and welfare*
- Participate in root cause analysis
- Participates in event management drills, exercises and training

Event Management Team Center Support Team Member

- Assists in setup of event management center
- Records event management team discussions
 - ▶ *Prepares meeting minutes*
 - ▶ *Tracks issues*
- Provide administrative support as needed
- Maintain all documentation created/received by event management team
- Record and document all actions with forensic-level detail
 - ▶ *Activities, decisions, problems, inputs, follow-up, tasks, directives, chain of custody transfers*
- Record and document all actions with forensic-level detail
- Participate in root cause analysis
- Participates in event management drills, exercises and training

Technical CxO Representative (CIO/CTO)

- Advises on event's impact to IT
 - ▶ *Severity level*
 - ▶ *Proposed/planned response activities*
- Directs IT activities in support of proposed/planned response activity
- Advises on implications to business
 - ▶ *Issues involving applications, data, business partners, integrators*
- Participates in root cause analysis post-event
- Participates in event management drills, exercises and training

Public Affairs/Relations and Corporate Communications Representative

- Coordinate communication
 - ▶ *Media*
 - ▶ *Employee*
 - ▶ *Customer*
- Monitor media coverage of incident
- Advise on corporate communication aspects of response and recovery action
 - ▶ *Company/brand image*
 - ▶ *Severity level*
- Advises and briefs spokesperson
- Participate in root cause analysis
- Participates in event management drills, exercises and training

Corporate Legal Affairs/General Counsel Representative

- Advises on legal implications of proposed/planned response activities
- Advises on legal responsibilities that arise from event
- Advises on legal methods to contain event
- Advises on legal requirements for
 - ▶ *Protection of records*
 - ▶ *Disclosure*
- Advises on regulatory requirements
- Participate in root cause analysis
- Participates in event management drills, exercises and training

As Needed: Board of Directors Representative

- Advise/speak on behalf of board of directors
- Liaise with core team members where appropriate

As needed: External Vendors (Applications, Integrators, ISP, Service Providers)

- Advise regarding specific aspects of services provided.
- Assist with forensics, information gathering and remediation (as relating to the service provided)

Event Management Contact List



eSentire Security Operations Center (SOC) – Incident Response	
PHONE 1	1.866.579.2200 x3
PHONE 2: ESCALATION 1	+001.519.651.2200 x3
EMAIL	csirt@esentire.com
EMAIL	esoc@esentire.com

War Room Information	
PHONE (INTL)	
PHONE (TOLL-FREE)	
LEADER PASSWORD	
PARTICIPANT PASSWORD	
URL	

Event Management Team Leader	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Event Team Coordinator	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Event Management Team Center Support Team Member I	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Event Management Team Center Support Team Member II	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Technical CxO Representative (CIO/CTO)	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Facilities/Physical Security Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Compliance/Risk/Finance Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Human Resources Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Public Affairs/Relations and Corporate Communications Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Corporate Legal Affairs/General Counsel Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Legal Counsel Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Line of Business Representative I	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Line of Business Representative II	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Line of Business Representative III	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Line of Business Representative IV	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

Board of Directors Representative	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Finance Contact I	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Finance Contact II	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Vendor I	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Vendor II	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

External Vendor III	
NAME	
TITLE	
PHONE 1	
2: ESCALATION 1	
3: ESCALATION 2	
EMAIL	
SMS	

eSENTIRE

eSentire is the Authority in Managed Detection and Response, protecting the critical data and applications of 1000+ organisations in 70+ countries from known and unknown cyber threats. Founded in 2001, the company's mission is to hunt, investigate and stop cyber threats before they become business disrupting events. Combining cutting-edge machine learning XDR technology, 24/7 Threat Hunting, and proven security operations leadership, eSentire mitigates business risk, and enables security at scale. The Team eSentire difference means enterprises are protected by the best in the business with a named Cyber Risk Advisor, 24/7 access to SOC Cyber Analysts & Elite Threat Hunters, and industry-leading threat intelligence research from eSentire's Threat Response Unit (TRU). eSentire provides Managed Risk, Managed Detection and Response and Incident Response services. For more information, visit www.esentire.com and follow @eSentire.