	On-the-Job Training Blueprint						
Month	Month New Analyst - Cybersecurity DFIR						
S/N	Technical Skills and Competencies	Training Duration (Month)*					
1	Onboarding/Access Requests	1st Month					
2	2 SIEM/Tools Training 1st Month						
3	Email Analysis 2nd Month (Last week July 2023)						
4	Incident Handling 2nd - 6th Month						
5	DLP	2 nd month					
6	Host-based Analysis 2nd Month						
7	Network-based Analysis	3rd Month					
8	Endpoint Detection and Response (EDR) / Antivirus	3rd - 4th Month					
9	Threat Intelligence and Detection 4th - 6th Month (out of scope for practicum proj						
10	Tabletop Exercise and Assessment	3 rd Month; 6th Month (After Practicum)					
	Total Duration	6 Months					

S/N	Technical Skills and Competencies	Knowledge	Abilities	Range of Application	Training Duration (Months)	Performance Evidence
1	Onboarding/Acc ess Request	 Organizational Structure Roles and Responsibility Incident Response Life Cycle Incident Response Plan Incident Escalation Procedure Key Stakeholder group 	 Familiar with incident management and response procedure for detection, reporting and handling of incidents Familiar with remediation and resolution of cyber incidents at organizational level How to communicate incidents to different critical stakeholders Cross-region communicate and collaboration 	Incident and Case Handling Incident Response Procedure/playbook Email Notification/Response Template Cross-region handover Different accounts	1 st Month	 Able to identify various SME Complete CISP and CIRP Familiarity with CMDB tool
2	SIEM/Tools Training	 [SIEM Tools] CMDB service Email Security Appliance Email Archive Domain Name Server resolution service 	Able to access and use org tools	 Cyber Dashboard with tools Tool Documentation(s) 	1 st Month	Able to access org tools
3	Email Analysis	 Lifecycle of an email (SMTP) Analyze message headers and gauge email authenticity using SPF and DKIM Extract and review document metadata present Merge event logs and perform advanced filtering to easily get through large events Malicious attachment analysis Phishing Response Tool 	 Perform log analysis Case writeup and handling Phishing email analysis Identify if any email clickers Analyze email header and authenticity Malicious attachment analysis Malicious url analysis Blocking of C2/phishing Domains Email removal/quarantine Ticket queue 	 Phish email analysis tool Case management Malware file or link analysis Email releases ticket 	2 nd Month	 Able to manage Email Triage Queue Able to triage Phish Report Incidents without assistance Able to triage tickets
4	Incident Handling	Phish Report Triage Ticket handling Incident handling	 Handles phish reports Basic ticketing and cyber-Incident investigation 	• varies	2 nd month – 6 th month	Able to triage cases/ cyber incidents without assistance
5	DLP	Classification of DataEscalationReview Daily DLP	Able to work on DLP daily triage	DLP tool(s)	2 nd month	Able to work on DLP Daily triage Incidents

S/N	Technical Skills and Competencies	Knowledge	Abilities	Range of Application	Training Duration (Months)	Performance Evidence
6	Network-based Analysis	 Network protocol analysis Hypertext Transfer Protocol (HTTP) Domain Name Service (DNS) File Transfer Protocol (FTP) Server Message Block (SMB) and related Microsoft protocols Simple Mail Transfer Protocol (SMTP) Log collection, aggregation, and analysis Pcap/wireshark analysis - etraining 	 Analyze network traffic Architecture and core functionality Tunneling Fast flux and domain name generation algorithms (DGAs) Logging methods Amplification attacks Filtering network activity to identify indicators of compromise Assessing encrypted network traffic with multiple data sources Identifying compromised host beaconing with proxy server logs 	 Packet Capture Analysis Wireshark Network investigations cases SIEM tools - log analysis Syslog Windows Event HTTP server logs Firewalls, Intrusion Detection Systems (IDS), Network Security Monitoring (NSM) Platforms Log collection, aggregation, and analysis Web proxy server examination 	3 rd month	Able to triage network-based cases/ cyber incidents without assistance Able to review packet capture using wireshark *
7	Host-based Analysis	 Incident Response and Intrusion Forensics Methodology Advanced Incident Response and Threat Hunting Tactics and Procedure Cyber-kill chain strategies ATT&CK - MITRE Web Browser Forensics Windows Artifact Analysis Registry Analysis, Application Executions Memory Forensics Timeline Analysis Advanced Adversary & Antiforensics Detection Living of the land techniques scenario 	 Track a suspect's activity in browser history and cache files and identify local file access Examine which files a suspect downloaded Determine URLs that suspects typed, clicked on, bookmarked, or were merely re-directed to while web browsing Investigate browser auto-complete Identify artifact and evidence locations to answer crucial questions, including application execution, file access, data theft, external device usage, device geolocation, Browser history, 	 Endpoint Detection and Response (EDR) console and agents ATT&CK - MITRE's Adversarial Tactics, Techniques, and Common Knowledge 	2 nd & 3 rd Month	Able to triage host-based cases/tickets without assistance

S/N	Technical Skills and Competencies	Knowledge	Abilities	Range of Application	Training Duration (Months)	Performance Evidence
		 Hands-on exercise modeled after real-world attack Parent Child Processes Common process 	 file download, anti-forensics, detailed system, and user activity Respond, detect, scope, and stop intrusions and data breaches. Identify compromised and affected systems 	 Endpoint Detection and Response (EDR) console and agents ATT&CK - MITRE's 	• 3 rd – 4 th month	 Threat Hunt Investigate Host Able to perform forensic investigation on given host
8	Endpoint Detection and Response (EDR) / Antivirus	- Common process	Perform damage/compromise assessments, such as: Identity attack mechanism Identify and track malware beaconing to C2 Memory analysis Privilege escalation Lateral movement analysis Deep-dive timeline creation and analysis Detect anti-forensics and hiding techniques Data exfiltration Contain and remediate incidents Organize findings for use in incident response, internal investigations, intellectual property theft inquiries, and civil or criminal litigation.	Adversarial Tactics, Techniques, and Common Knowledge Kill process Quarantine host		
9*	Threat Intelligence and Detection	 Cyber intelligence Emerging threats, perpetrators, doctrines, and methods of operations 	 Gather intelligence with OSINT platforms and tools Manage the research, analysis, and data integration across wide variety of information sources/ intel feeds 	 Cyber intelligence feeds Regulator/Gov 3rd Party Intel Vendor Incident response and threat hunting 	• 4 th - 6 th month	Threat assessment and case write up

S/N	Technical Skills and Competencies	Knowledge	Abilities	Range of Application	Training Duration (Months)	Performance Evidence
			Determine tactics, techniques and procedures used for intrusions and attacks Articulate significance of evolving cyber security threats to global cyber team, critical decision makers and senior management in organization Present impact assessment			
10	Tabletop Exercises	Full Incident Response Life Cycle Walkthrough	Be able to Respond to a simulated breach and follow the incident response life cycle all the way through: Mainly Identification Containment Eradication Recovery And Lessons Learned	• Varies	3 rd month and again on 6 th month	 No missed alerts Indicators of Compromise identified Root cause identified Threat contained and eradicated where applicable

^{*} out of scope of practicum project