Training Course on SaaS Application Forensics

Professional Development Training Course Outline

Category	Digital Forensics	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

As the digital landscape shifts towards Software-as-a-Service (SaaS) platforms such as Microsoft Office 365 and Google Workspace (G Suite), cybercriminals are increasingly exploiting these environments. Enterprises and law enforcement agencies must now navigate complex cloud ecosystems to perform forensic investigations and ensure regulatory compliance. Training Course onSaaS Application Forensics is meticulously designed to equip cybersecurity professionals with hands-on expertise in analyzing, securing, and investigating cloud-based SaaS applications. It covers real-world threat vectors, log analysis, compliance auditing, and evidence acquisition from platforms like Exchange Online, OneDrive, Google Drive, Gmail, and Google Meet.

By combining cloud forensic principles, zero-trust security models, and incident response frameworks, this course prepares professionals to detect breaches, recover data, and collaborate with law enforcement or regulatory bodies. Emphasis is placed on leveraging native tools (e.g., Microsoft Purview, Security & Compliance Center, Google Vault) and third-party SaaS forensic tools to perform end-to-end investigations. The evolving threat landscape calls for proactive forensic readiness across all sectors relying on cloud-based applications.

Programme Curriculum

Training Course onSaaS Application Forensics

Introduction

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Course Objectives

1. Understand the fundamentals of SaaS forensics and cloud-native data acquisition.
2. Conduct forensic analysis using Microsoft 365 Compliance Center and Google Vault.
3. Investigate insider threats and unauthorized access in Office 365 and G Suite.
4. Perform log correlation and metadata analysis across multi-tenant environments.
5. Utilize zero-trust security models in forensic investigations.
6. Interpret OAuth token misuse and its forensic implications.
7. Apply eDiscovery and litigation hold for data preservation.
8. Leverage APIs and third-party forensic tools for advanced analysis.
9. Document digital evidence ensuring chain of custody compliance.
10. Execute forensic triage and timeline reconstruction for cloud incidents.
11. Mitigate risks of credential theft, phishing, and business email compromise.
12. Create actionable reports aligned with NIST and ISO standards.
13. Engage in real-world case studies involving SaaS platform breaches.

Target Audiences

1. Cybersecurity Analysts
2. Digital Forensics Investigators
3. Incident Response Teams
4. Compliance Officers
5. IT Security Managers
6. Law Enforcement Personnel
7. Cloud Infrastructure Engineers
8. Cybersecurity Students and Trainees

Course Duration: 5 days

Course Modules

Module 1: Introduction to SaaS Forensics

- SaaS forensic architecture overview
- Common SaaS attack vectors
- Understanding cloud log sources
- Legal considerations in SaaS investigations
- Key artifacts from Office 365 and G Suite
- **Case Study:** Phishing Attack on Microsoft 365 Account

Module 2: Office 365 Forensic Tools and Techniques

- Navigating Microsoft Purview and Audit Logs
- Using eDiscovery & Compliance Center
- Analyzing SharePoint & OneDrive artifacts
- Tracing Exchange Online email activity
- Detecting account takeovers
- **Case Study:** Data Leak via OneDrive

Module 3: G Suite Forensic Investigation

- Google Admin Console & Vault overview
- Gmail header and metadata extraction
- Google Drive file versioning analysis
- Log acquisition via APIs
- OAuth abuse investigation
- **Case Study:** Compromised Google Workspace Account

Module 4: Multi-Cloud Incident Response

- Cross-platform correlation (M365 & G Suite)
- Log aggregation & SIEM integration
- Real-time alerting mechanisms
- Advanced threat hunting in SaaS
- Identity & Access Management (IAM) forensics
- **Case Study:** BEC Across Office 365 and G Suite

Module 5: Legal & Compliance Considerations

- GDPR, HIPAA, and CCPA in cloud forensics
- Litigation holds & retention policies
- Cross-border evidence handling
- Data sovereignty & privacy concerns
- Chain of custody documentation
- **Case Study:** eDiscovery Request Compliance

Module 6: Insider Threat & Behavioral Forensics

- Identifying anomalous user behavior
- Monitoring privileged accounts
- Data exfiltration tactics & indicators
- Integrating DLP with forensics
- Alert response strategies
- **Case Study:** Insider Leak via Google Drive

Module 7: Automation & Tool Integration

- Scripting forensic tasks with PowerShell & Python
- Using third-party forensic tools (e.g., Magnet AXIOM Cyber)
- API-based evidence collection
- Automating audit log reviews
- Dashboarding with Power BI or Looker
- **Case Study:** Automating Suspicious Login Investigations

Module 8: Reporting & Communication

- Writing professional forensic reports
- Visualizing timelines & activities
- Creating executive summaries
- Presenting evidence in court
- Lessons learned & playbook creation
- **Case Study:** Incident Response Briefing to Executives

Training Methodology

- Instructor-led virtual and in-person sessions

- Hands-on labs with sandboxed Office 365 and G Suite environments
- Real-world case study simulations
- Quizzes and forensic tool walkthroughs
- Group discussions and scenario-based role plays
- Capstone project with multi-platform investigation

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Online	$1,000
21 Sep 2026	25 Sep 2026	Physical	$1,500
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com