



MALWARE ANALYSIS

STATIC . DYNAMIC . BEHAVIOUR
SANDBOXING . DEBUGGING
INDICATORS . DETECTION . REPORTING

DURATION
50 Hours

LEVEL
Advanced

MODULES
8

MODE
**Classroom •
Online • Hybrid**

01 COURSE OVERVIEW

A malware analysis course from safe sample handling to behavioural and code-level analysis. The course builds an isolated analysis lab, then works through static triage, dynamic execution monitoring, unpacking, assembly-level review and indicator extraction, using real but defanged samples.

Learners produce analysis reports with detection signatures for each sample studied.

WHO IT IS FOR

SOC and incident response analysts

Threat intelligence teams

Reverse engineering enthusiasts

Security researchers

PREREQUISITES

Operating system internals, networking, and comfort with Windows administration. Assembly exposure is helpful.

02 LEARNING OUTCOMES

01 Build and isolate a malware analysis lab safely.

03 Observe behaviour with process, file and network monitoring.

05 Read assembly to understand key routines.

07 Write YARA rules and an analysis report.

02 Triage samples with static indicators and hashing.

04 Identify packing and unpack simple samples.

06 Extract host and network indicators of compromise.

01 LAB AND SAFETY

Isolation

Sample handling

Analysis workflow

Snapshots

Legal and ethical rules

02 MALWARE TYPES

Trojans

Loaders

Rootkits

Ransomware

Info stealers

Living-off-the-land techniques

03 STATIC ANALYSIS

File headers

Strings

Entropy

PE structure

Imports and exports

Hashing and reputation

TOOLS

PESTUDIO

CFF EXPLORER

04 DYNAMIC ANALYSIS

Process monitoring

Network capture

Sandbox reports

File and registry changes

API calls

TOOLS

PROCMON

WIRESHARK

CUCKOO

05 PACKING AND OBFUSCATION

Packers

Anti-analysis tricks

Shellcode basics

Manual unpacking

Script deobfuscation

06 CODE ANALYSIS

x86 essentials

Control flow

Key routine identification

Disassembly

Debugging

TOOLS

GHIDRA

X64DBG

07 DOCUMENT AND SCRIPT MALWARE

Macro analysis

PowerShell and JScript

PDF objects

LNK and archive lures

LAB

PHISHING ATTACHMENT ANALYSIS

08 DETECTION AND REPORTING

IOC extraction

Sigma rules

Report structure

YARA rules

Threat classification

PROJECT

SAMPLE ANALYSIS REPORT WITH SIGNATURES

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

MALWARE ANALYST

THREAT RESEARCHER

REVERSE ENGINEER

INCIDENT RESPONSE ENGINEER

DETECTION ENGINEER

CALL US

+91 73051 33996

EMAIL US

apply@kaizeninfinities.com

VISIT OUR WEBSITE

www.kaizeninfinities.com