PROFESSIONAL TRAINING COURSE



3 Days Course on Forensic & Anti-Forensic Data Recovery: Tools & Techniques







Forensic & Anti-Forensic Data Recovery: Tools & Techniques

Forensic Data Recovery is the collection, preservation, analysis, and presentation of computer-related evidence. Computer evidence can be useful in criminal cases, civil litigation, and human resource and employment proceedings. Far more information is retained in a computer than most people realize. It's also more difficult to completely remove information than is generally thought. For these reasons, as well as others, computer forensic examinations can typically recover lost or deleted information (or at a minimum find evidence of the information) even when it has been intentionally deleted. Computer hard drive forensic examinations go far beyond normal data recovery techniques, probing areas and files on the media not normally accessed by untrained personnel. These examinations can locate whatever data a business, agency, or individual needs. Meanwhile for Anti-Forensic is a set of tools and techniques used as countermeasures for forensic analysis. Such techniques include data hiding, artefact wiping, disk cleaning utilities, file wiping utilities, disk degaussing/destruction techniques.

This training course is designed to introduce the latest data recovery techniques and solutions. The training course would also offer counter countermeasures for forensic analysis.

Course Settings

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Date	Refer to Training Calendar
Venue	Refer to Training Calendar
Fees	Contact Us at sales@2-sigma.com
Timings	0900-1700 (3 Days)
Inclusive	Certificates and notes
Audiana	The course has been designed for IT personnel, administrators, computer
Audience	support staffs and an end-user who are aware the importance of data in their storage. No previous repair or data recovery experience necessary.
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3-DaysTraining Course would offer an excellent solution for:

- 1. Crash Windows Operating system corrupt.
- 2. Accidental Disk Formatted
- 3. Virus Attack
- 4. Partition loss or Corruption FAT/NTFS
- 5. Lost or Missing files and folders
- 6. Email recovery. pst / .wab / .dbx / .mbx
- 7. Password recovery (Workstation Win98/Vista/Win7/ Word/Excel/PDF dan Server 2003/2008)
- 8. Recover corrupted file from CD/DVD/Pendrive
- 9. Repair corrupt Files after recover (word/excel/pdf)
- 10. Data Hiding, Encryption and Steganography
- 11. Artefact wiping
- 12. Disk Cleaning Utilities
- 13. Disk degaussing/destruction



Training Methodology

Practical exercises combined with highly engaging activities will be used to reinforce learning objective. To highlight few of practical hands-on includes:

- Recover deleted files
- Recover data from CD / DVD
- Recover data from SD Card / MicroSD
- Recover data after MFT destroyed
- Recover data after Hard Disk has been formatted.
- Recover deleted Emails Outlook pst / .wab / .dbx / .mbx
- Recover Windows XP / Win 7 Admin Password
- Recover Windows Server Admin Password
- Recover Password (Words /Excel)
- Delete/erase/wipe any file from any media
- Delete/erase/wipe all data from any media and bring it back
- Anti-Forensic tools and techniques

Data Recovery -Schedule

Data Recovery -Schedule		
Day 1		
09.00am – 10.00am	What is a file system?	
	Attributes of a file system	
	Microsoft Operating System	
10.00am – 10.30am	Breakfast	
10.30am - 12.45pm	Hard Disk as a Storage Device	
	 Platter/Heads/Circuit board /BIOS C-H-S Addressing 	
	File System on-Disk format	
	 Master Boot Record/OS Boot Record 	
	Indexing Methods	
	FAT 16 – Attributes 16-bit addressing /Placement / File Entry	
	Tables	
	FAT 32 – Attributes 32-bit addressing /Placement / File Entry	
	Tables	
	 TSF – Attributes (MFT) Database type/Placement/File Entry 	
	Tables	
	Data Area	
	 FAT 16 – Root Directory (Static) 	
	FAT 32 – Root Directory (Virtual)	
	NTSF – MFT (Virtual) /INDX (Virtual) / Data Area (Virtual)	
12.45pm – 02.15pm	Lunch	
02.15pm – 05.00pm	Practical Exercises I	



	Day 2		
09.00am – 10.00am	File System Weaknesses Corrupt MBR Corrupt OS Boot Record Corrupt FAT /NTFS		
40.00 40.00	 Corrupt MFT Virus pre-empting operating system load 		
10.00am – 10.30am 10.30am – 12.45pm	Data Recovery Operating system will not boot		
	 MBR corrupted or missing OS boot record corrupted or missing OS Start up files missing or corrupted 		
	Virus pre-empting operating system load Practical Exercises II		
12.45pm – 02.15pm 02.15pm – 05.00pm	Lunch Practical Exercises III		
Day 3			
09.00am – 10.00am	 Anti-Forensic Data Recovery Solution Data Hiding, Encryption and Steganography Artefact wiping 		
10.00am - 10.30am	Breakfast		
10.30am – 12.45pm	 Anti-Forensic Data Recovery Solution (Continue) Disk Cleaning Utilities Disk degaussing/destruction Practical Exercises IV 		
12.45pm – 02.15pm	Lunch		
02.15pm – 05.00pm	Practical Exercises V		

More Information

Two Sigma Technologies

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To register, please email to <u>sales@2-sigma.com</u> or fax the registration form to 03-61880602, we will contact you for further action.