



INTERSOFT

TECHNICAL INSTITUTE

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DATA RECOVERY TRAINING COURSE MATERIAL

MODULES	COURSES	FULL DAY 6 HRS
MODULE E1	BASIC ELECTRONICS	HALF DAY
MODULE D1	LOGICAL DATA RECOVERY TRAINING	HALF DAY
MODULE D2	HARD DISK PCB REPAIRING CONCEPT	1 DAY
MODULE D3	PHYSICAL DATA RECOVERY TRAINING	1 DAY
MODULE D4	HARD DISK FIRMWARE BASIC AND REPAIR TRAINING	1 DAY
MODULE D5	DATA EXTRACOR OF MRT AND SEGATE FIRMWARE REPAIR TOOLS	1 DAY
MODULE D6	WD, SAMSUNG, TOSHIBA FIRMWARE MRT REPAIR TOOLS	1 DAY

Terms & Condition:-

- ⇒ Registration Fees 1000/- Extra On Any Course
- ⇒ Reserve Seat before class and take online class
- ⇒ Course content, Fees & chapter may be change without prior notice

MODULE D1

LOGICAL DATA RECOVERY TRAINING

D1.1 Introduction to Storage Device, Hard disk and models, converter used

D1.2 Hard Disk Data recovery common problems, with fault

1. LOGICAL PROBLEMS (disk detected in BIOS are mainly logical problems)
2. PHYSICAL PROBLEMS (disk not detected in BIOS are main physical problems)
 - a. ELECTRONICAL FAILURE PROBLEMS
 - b. MECHANICAL FAILURE PROBLEMS
3. FIRMWARE PROBLEMS

D1.3 Understanding hard disk structure (platter, head, sector, cluster, track, cylinder,)

D1.4 Internal Parts of Hard Disk Demo Parts Identify SATA 3.5 Drive 1tb St31000333as

D1.5 Understand how data stored in hard disk & Microsoft files structure (FAT, NTFS, MBR)

D1.6 Working concept of Format, Partition & computer booting process,

D1.7 Data recovery Software used for different problems, steps with features

- Deleted partition recovery
- Formatted data recovery
- MBR repair
- Deleted files recovery
- Different software used idea

D1.8 Pen drive and Memory card logically data recovery concept

Troubleshooting chart of logical data recovery

MODULE D2

HARD DISK PCB REPAIR TRAINING

D2.1 SMD Basic electronics for hard disk components and PCB repair, tools demo

D2.2 Common problem in hard disk due to printed circuit board fault

D2.3 Introduction to HARD DISK PCB , block diagram section of hard disk,

D2.4 Power & protection section, DC to DC converter (Mosfet, other smd component working and power detail in hard disk)

D2.5 Mcu section, Data section, preamp section head (chip working concept power main signals)

D2.6 Buffer Ram, flash rom section (working concept types and main signals)

D 2.7 VCM Motor controller & read channel chip working concept and main signals

D 2.8 Live pcb tracing, different volt of pcb, fault finding of hard disk pcb

Online offline

D2.9 Identify hard disk pcb no for donor pcb (Samsung, Seagate, wd, Hitachi, Ibm , Maxtor)

D2.10 Replacing component and IC`s of hard disk (demo, video)

(understand different hard disk pcb, circuit troubleshooting chart)

MODULE D3

PHYSICAL(MECHANICAL) DATA RECOVERY TRAINING

D3-1 MECHANICAL FAILURE PROBLEMS (common hard disk problems)

D3.2 Donor Selection of Different Hard Disk for patient

D3.3 Data recovery instrument detail and used detail with demo on opening hard disk (clean room, head replacement, spindle motor remover, magnet remove tools, etc)

D3.4 Steps for opening hard disk, video, instruction, do , don't while opening, donour selection, used of instruments

D3.5 Practice on magnet & head replacement of hard disk

D 3.6 Practice on platter replacement of hard disk

D3.7 Practice on spindle motor changing of hard disk

D3.8 Basic idea of data recovery from pen drive, memory card, flashcard

D3.9 Basic Introduction to hard disk firmware updating and high end instruments idea

D3.10 Data recovery common problems and solution to take Chart for hard disk repair

MODULE D4

FIRMWARE UPGRADATION BASIC

D4.1 Introduction to hard disk firmware

D4.2 Introduction to hard Disk firmware module in service area

D4.3 Problems when firmware is corrupted

D4.4 Basic Introduction to Different Firmware repair instrument/software list

D4.4 Seagate common terminal commands idea

D4.6 Introduction and used of Seagate firmware repair tools

(smart reset, clear plist , clear glist, repair, module update, format, service area, regenerator)

D4.7 WD hard disk firmware repair tools used(clear smart, clear plist, clear glist, format, clear regenerator, module check, etc)

MODULE D5

MRT DEVICE USE FOR HARD DISK FIRMWARE REPAIR & DATA RECOVERY

- D5.1 Introduction to MRT device and main menus
- D5.2 Data copier/extractor Menus used and connection detail
- D5.3 Seagate MRT menu and connection detail with terminal
- D5.4 Seagate hard disk terminal command identify and Used
- D5.5 Seagate 3 easy steps repairing process
- D5.6 Seagate hard disk shorting process
- D5.7 Seagate hard disk common problems solution due to firmware problems

MODULE D6

WD, SAMSUNG, TOSHIBA FIRMWARE MRT REPAIR TOOLS

- Common problems in wd hard disk due to firmware problems
- Booting process of hard disk, Connection types of hard disk with firmware tools
- Types of hard disk and families , models, types architecture MDL DCM LBA
- Identify families from model no ,
- Types of hard disk pcb , pcb no , pcb families
- Matching USB hard disk pcb with SATA hard disk pcb
- Basic idea of WD hard disk ROM firmware files, different extension
- Types of module, unique main micro modules
- ROM Modules files (ROM FILES 0A, 0B/20B, 30, 47, 0D, 4F)
- Analysis of ROM Module Data Structure
- Read, write , editing , regenerate of rom modules
- Backup of ROM modules in service area
- Structure of different rom module
- Viewing editing identify, read , copy rom modules, ROM files
- MAIN MODULES OF SERVICE AREA (module 01, 11, 13, 5c, 10 1f, 02 , 35, 49)
- LDR file loading on WD hard disk, Directory listing Module ,
- Key module for data backup old I series and new royl series
- Read,write, repair, editing modules of wd hard disk s
- Micro code firmware version, Wd fixing option
- SPT value calculation, CASE study of WD hard disk firmware repair option

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