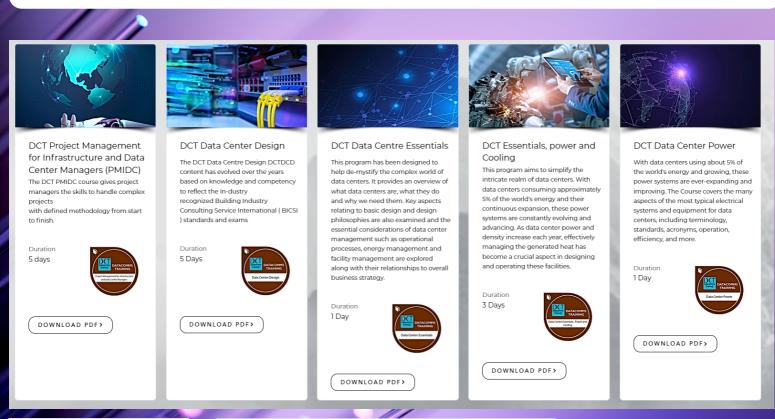
Datacomms Training®





DCT Data Center Cooling

As the data center power and density has increased every year, the need to remove the heat generated has become a more important factor for the design and operation of the facility.

Duration 1 Day



DOWNLOAD PDF>

Data Center Training



DCT Wireless essentials The DCT Wireless Essentials is a practical course for companies and Individuals planning to deploy a secured Enterprise Wireless System secured Enterprise Wireless System. The Wireless technology has evolved over the years with main trends being security, speed and Frequencies. The current wireless technology are 80.11ax (wi-fi 6) and 80.11bs (wi-fi 7). The benefits of newer Enterprise Wireless systems are higher throughput, increased ranchib, increased increased capacity, improved performance with many connected devices, improved power efficiencies lower latency and support for IoT devices. The new Wireless techno ideal for video streaming, cloud computing, video calling, video ology is conferencing, remote office etc The DCT Wireless Essential Wireless Labs incorporate Physical Wireless Devices connected to a cloud-based Devices connected to a cloud-based Controller which can be managed from any location with a single pane of glass dash board showing all wireless access points deployed in the network. The theory and the practical session includes design , Install and deployment of efficient secured wireless in any environment

2 Days

DOWNLOAD;



DCT Cloud Essentials

DCT Cloud Computing Essentials gives an insight into how Cloud computing helps individuals and organizations to take advantage of the cost / benefit of moving from on premises equipment to cloud computing with faster and reliable internet. The course is suitable for people planning to migrate to cloud and helps to understand concepts of cloud computing on compute and storage.

Cloud computing provides a superior alternative to traditional on premises Server, Networking and storage equipment. The benefits are reduced costs, speed, scalability, productivity, and reliability. Cloud computing allows users to remotely access unlimited data storage and software over the internet without the need for expensive hardware in every business location.



2 Days



DCT Cybersecurity awareness Designed to give learners an understanding of how to secure their data and devices while using organizational or personal resources.



DOWNLOAD;



Planning & Asset Protection Security and Management are two key elements for the successful development and progression of any leading business. Effective security management, personnel, and systems must integrate and support the business to secure key assets, rather than restrict is operation.



DOWNLOAD>

5 Days







DCT IP Surveillance, Storage & Access Control This is Practical oriented course which covers the principles, installation and integration of IP Surveillance, Storage & Network Video Recorder(IWR) and access control to give a unified solution on physical security.





DCT Structured Cabling & Advanced Fiber Optics Training DCT Structured cabling is a unique Multi-vendor course that introduces Structured Cabling standards for both Cooper & Fibre installations



DOWNLOAD>

Infrastructure Training



DCT Unified Communications & Video Conferencing.

DCT Unified Communications is a unique Multi-vendor course that introduces IP Telephony, Unified Messaging, Unified Presence and Unified mail to ICT Professional who are interested in venturing into the world of IP communications

Duration 5 Days



DOWNLOAD>



DCT Advanced Fiber Optics

DCT Advanced Fibre Optic course begins with a review of fi ber optic theory, products, and procedures. Then you will focus on advanced skill development in three days of hands-on exercises that include preparing indoor, outdoor cabling and routing through splice closures, patch panels and splice trays, fusion and mechanical splicing, testing and troubleshoot-ing optical links, setting up and calibrating an OTDR, performing a cable acceptance test, and measuring optical return loss and reflectance using an OTDR

Duration 5 Days	Desacones Desacones Desacones Desacones Desacones Desacones Desacones
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DCT IP Surveillance, Storage & Access Control

Duration : 5 Days

Course Code: DCT - INFR - AC-CCTV

Overview:

This is Practical oriented course which covers the principles, Installation and integration of IP Surveillance, Storage & Network Video Recorder(NVR) and access control to give a unified solution on physical security.

Target Audience:

Contractors, Installers of CCTV and Access Control

Pre-requisite

Basic networking skills and IP

Course Outline

- Module 1: Fundamental Concepts
- Module 2: From Analog to IP Surveillance
- Module 3: Camera Technical Specifications
- Module 4: Video Images and Audio Features
- Module 5: Camera Form Factors
- Module 6: Video Recording Systems
- Module 7: IP Surveillance System Integration
- Module 8: Network & Security in IP Video Surveillance
- Module 9: Design and Deployment of IP Surveillance System
- Module 10. Access Control Fundamental Concepts
- Module 11: Life Safety
- Module 12 Doors and Locks
- Module 13: Credentials Readers.
- Module 14: Controllers and Management Software
- Module 15: Storage Concepts



Duration: 5 Days

Datacomms Training[®]

Course Code: DCT -INFR - UC

Overview:

DCT Unified Communications is a unique Multi-vendor course that introduces IP Telephony, Unified Messaging, Unified Presence and Unified mail to ICT Professional who are interested in venturing into the world of IP communications The class based training offers advanced hands on experience labs to prepare students for any deployment scenarios.

Target Audience:

Network Engineers

Objectives:

- Describe the components of IP Telephony.
- Describe PSTN components and technologies.
- Describe how to interconnect VoIP with service provider networks.
- Implement a Unified Communication Systems PBX
- Implement phone provisioning to support endpoints.
- Implement Basic Voicemail and IVR an IP PBX platform.
- Implement Voice Gateways and analogue Phone integration with IP Systems

Pre-requisite

Those attending this course require basic understanding of IP Basic Knowledge of telephony desired but not compulsory.

Course Content

- Introduction to unified communications.
- Design a UC solution _Vendor Offering.
- Migration option from legacy to IP.
- Basic configuration hand on lab.
- _ Integrated IP telephony PSTN.
- Integrated IP telephony Legacy PBX and analogue Phones.
- Advanced configuration, call restriction ,call routing and QOS.

LABS

- LAB 1: Configuring CUCME on Cisco 2900 Router.
- LAB 2: Configuring Avaya IP Office 500.
- LAB 3: Configuring Huawei eSpace U19100.
- LAB 4: Installing and configuring asterisk open source IP
- PBX. LAB 5: Integration of VOIP gateways to IP Systems..

Content: Copper Introduction to Balanced Twisted-Pair **Cables** Connecting Hardware •Telecommunications Outlets Patch panels •Wiring Blocks Networks Local and Wide Area Networks •Pros and Cons of a Network Network Topologies •Generic (Structured) Cabling **Cabling Standards** •ANSI/TIA/EIA Standards ISO/IEC Standards •CENELEC Standards Cable Categories **Horizontal Cabling** •Horizontal Channels •Open Office Cabling Channel Lengths Horizontal Pathways •Maximum Pathway Fill **Backbone Cabling** •Backbone Cabling Systems Backbone Cabling Distance Limitations Work Area Cabling •Work Area Components Telecommunications Outlets Work Area Cable Termination **Telecommunications Spaces** •Equipment Rooms Telecommunication Rooms Entrance Facilities **Electromagnetic Interference (EMI)** •EMI Power Separations **Installation Practices** Cable Management Bend Radius •Cable Stacking Height Cable Stress Cable Support Rack Clearance Equipment Locations Mounting Connecting Hardware •Earthling And Bonding Cable Pulling Cable Termination Testing •Permanent Link Testing Channel Testing Test Parameters Administration Labels Records •Administration Classes (1-4) Warranties Test Results •Warranty Registration Form

Content: Fibre

Introduction to Fibre Optics •What is Optical Fibre? Optical Fibre Construction •Fibre Sizes **Optical Fibre Transmission** •Fibre Optic Transmission Systems and Data Links •Fibre Optic Transceivers Types of Fibre •Electromagnetic Spectrum and Wavelength **Fibre Optic Transmission Windows** Fibre Optic Cable Types Loose tube and Tight Buffer Simplex and Duplex •Distribution and Break-out cables •Indoor/Outdoor Cables Self-Supporting Armoured **Fibre Splicing and Terminating** •Mechanical and Fusion Splicing •Types of Fibre Connectors •Hot and Cold Cure Termination Mechanical Termination **Signal Degradation** Dispersion Attenuation Scattering Absorption •Factors affecting Slice points Implementing Fibre Optic Cabling in the LAN • Fibre vs Copper •Fibre in the LAN Channel Classification •Optical Fibre Categories •Fibre Cannel Classification •Fibre Channel Length •Optical Fibre Applications •Fibre Cabling Design •Fibre Optic in the Work Area **Fibre Optic Safety** Chemical Hazards Optical Hazards Fibre Fragments Environment Safety for Everyone **Fibre Optic Cable Installation** Cable Pulling •Maximum Pulling Load •Bend Radius Pulling Cables in Ducts Colour Codes **Fibre Optic Testing** •Types of Test Required •Flashlight and Visual Fault Locator •Fibre Microscope Attenuation Testing Using LSPM •Channel Attenuation Calculations •Optical Time Domain Reflectometer Warranty Registration Form

Labs

Terminations, Troubleshooting and testing on: •Category 6 UTP Cabling system •Category 6A FTP Cabling system •Trouble shooting and Testing of both Cat 6 and Cat 6A cabling •Fibre Field terminations •Fibre splicing •Fibre Trouble shooting and Testing



DCT Advanced Fibre Optics

Duration: 2 Days

Overview:

DCT Advanced Fibre Optic course begins with a review of fiber optic theory, products, and procedures. Then you wiill focus on advanced skill development in three days of hands-on exercises that include preparing indoor, outdoor cabling and routing through splice closures, patch panels and splice trays, fusion and mechanical splicing, testing and troubleshoot-ing optical links, setting up and calibrating an OTDR, performing a cable acceptance test, and measuring optical return loss and reflectance using an OTDR

Target Audience:

The course is for anyone who is interested in learning how to become a fiber optic installer.

Objectives:

- PON and ACTIVE Network Designs
- How TDM and WDM is used in FTTH Applications
- 👝 In-depth use of an OTDR for Testing and Troubleshooting Understanding Probable
- 🗧 Faults in a Fiber System Attenuation, Return Loss, Back Reflection, Refraction
- Active/PON(FTTx) Qualification and Troubleshooting

Pre-requisite

- Those attending this course require basic understanding of network topology.
- Must have attended the DCT Structured Cabling Fibre Optics Course.

Content:

- Introduction to Fibre Optics
- •What are Optical Fibres?
- •Optical Fibre Construction •Fibre Sizes
- Optical Fibre Transmission
- •Fibre optic transmission systems and data links
- •Transmitting and receiving devices
- •Transmission over different types of fibre
- •Electromagnetic Spectrum and Wavelengths
- •Fibre Optic Transmission Windows Fibre Optic Cable Types
- Loose-Tube and Tight Buffered
 - •Simplex and Duplex
 - •Distribution and Break-out cables
 - Indoor/Outdoor
 - Self-supporting
 - Armoured
 - Fibre Splicing and Terminating
 - Mechanical and Fusion Splicing
 Types of fibre connector
 Hot and Cold Cure Termination
 Mechanical Termination
 Passive Optical Networks (PONs)
 Optical Line Terminal (OLT)
- Optical Network Terminal (ONT)
 Optical Network Unit (ONU))

- 👩 Signal Degradation
 - Dispersion
 - Attenuation
 - Scattering
 - Absorption
 - Factors Affecting Splice Points
 - Designing Fibre Optic Cabling in the
- Local Area Network
- •Fibre in the LAN
- Channel Classifications
- Channel Attenuation
- •Optical Fibre Categories
- •Fibre Cable Classifications •Fibre Channel Lengths
- •Optical Fibre Applications
- •Fibre Cabling Design
- •Fibre in the Work Area
- Fibre Optic Safety
- •Chemical Hazards
- Optical Hazards
- Fibre Fragments
- Environment
- Safety for Everyone
- Fibre Optic Cable Installation
- Conduct a thorough site survey
- prior to cable placement.
- Develop a cable pulling plan.

Testing and Certification

- Exam: DCT Structured Cabling Systems Installer
- Certificates :DCT Advanced Fibre Optic Certified Installer
 - •Follow proper procedures.
 - Do not exceed cable minimum bend radius.
 - Do not exceed cable maximum recommended load.
 Document the installation.
 - Fibre Optic Testing Methods •Preinstallation testing •Acceptance testing
 - •Configuration testing •Preventive maintenance testing
 - Fibre Optic Testing Equipment's •Types of test required •Flashlight and Visual Fault Locator
 - Fibre Microscope
 - Attenuation testing using Light
 - Source and Power Meter •Channel Attenuation Calculation
 - •Optical Time Domain Reflectometer
 - Fiber Troubleshooting
 - Verifying the problem.
 - Isolating the source of the problem.Repairing the problem.
 - •Testing the repaired system to ensure that it functions correctly.



DCT Project Management for Infrastructure and Data Centre Manager

Duration: 5 Days

Course Code: DCT-DC-PMID

Overview:

Develop a skill set to deliver intricate Infrastructure and Data Centre Projects within budgets and defined times scales. Having skills on project management from feasibility study, definition, design, implementation and evaluation ensures that projects are successfully delivered on time every time and within budgets. The DCT PMIDC course gives project managers the skills to handle complex projects with defined methodology from start to completion.

Target Audience:

This course is suitable for people implementing building Infrastructure and data center projects .

Objectives:

A certified PMIDC

helps to understand and comply with international recognized standards for Intelligent smart building infrastructure and data centres.

Pre-requisite

This course is suitable for people implementing building Infrastructure and data centre projects .

Content:

- 📒 Project Management
- •What is a Project?
- •Defining Project constraints •Roles of a Project Manager
- Overview of Project documentation
- Integration Management
 Combining Project areas
 - •Producing the Project plan
 - •Planning the execution
 - Mastering change control
- Scope Management
 - Defining the scope
 - Producing the scope of works
 - Verification of scope
 - Preventing scope creep with effective
 - change control
 - Quality Management
 - •Quality concepts
 - Quality definition
 - •Quality control
 - •Quality planning
 - •Quality assurance

- 📊 Risk Management
- •Defining risk
- Risk Identification
- Quantifying risk
- •Developing risk responses
- Devising risk response controls
- Human Resource Management
- Organisational planning
- Leading teams
- The psychology of teams
- •Team development
- Motivating teams
- Time Management •Defining the tasks
- Task estimation
- Scheduling tasks
- •Resource Allocation Cost Management
- •Resource planning •Cost Estimating
- •Cost budgeting
- •Cost control
- Use of budgeting tools

- 👝 Communications Management
 - •Developing communication strategies
 - •Conflict resolution
 - •Stakeholder analysis
 - •Communications planning
 - •Effective information distribution



DCT STRUCTURED CABLING COPPER & FIBRE OPTICS

About this course

DCT Structured cabling is a unique Multi-vendor course that introduces Structured Cabling standards for both Copper & Fibre installations. The class-based training offers advanced hands on experience labs to prepare students for any deployment scenarios for structured cabling. It's a three-day course (Day1- Copper cabling systems, Day2- 4Fibre cabling systems and Day 5-Labs and Exam.

Objective

Delegates are equipped with the knowledge, skills and expertise to competently undertake the installation of the Structured Cabling Solutions

Course Pre-requisite

Those attending this course require basic understanding of network topology

Labs

- Terminations, Troubleshooting and testing on:
- Category 6 UTP Cabling system
- · Category 6A FTP Cabling system
- Trouble shooting and Testing of both Cat 6 and Cat 6A cabling
- Fibre Field terminations
- Fibre splicing
- Fibre Trouble shooting and Testing

Certificate

- Giganet Certified Installer
- Siemon RI (Registered Installer)
- DCT Certified Installer

Course Outline

COURSE CONTENT- COPPER Introduction to Balanced Twisted-Pair Cables

Connecting Hardware

- Telecommunications Outlets
- Patchpanels
- Wiring Blocks
 Networks

- Networks Local and Wide Area Networks Prons and Cons of a Network Network Topologies Generic (Structured) Cabling Cabling Standards ANSI/TIA/EIA Standards ISO/IEC Standards CENELEC Standards

- CENELEC Standards
- Cable Categories
 Horizontal Cabling
 Horizontal Channels

- Channel Lengths
 Horizontal Pathways
 Maximum Pathway Fill
 Backbone Cabling

- Backbone Cabling Systems
 Backbone Cabling I Limitations Work Area Cabling I Work Area Components
 Telecommunications Outlets Distance

- Work Area Cable Termination
 Telecommunications Spaces
- Equipment Rooms
- Telecommunication Rooms
- **Entrance Facilities**

Electromagnetic Interference (EMI)

Content fiber optics

Introduction to Fibre Optics

- What are Optical Fibres?
- Optical Fibre Construction
- Fibre Sizes

Optical Fibre Transmission

Fibre optic transmission systems and data links

COURSE CODE: DCT - INFR- SC

- Transmitting and receiving devices
- Transmission over different types of fibre
- Electromagnetic Spectrum and Wavelengths
- Fibre Optic Transmission Windows

Fibre Optic Cable Construction

- Loose-Tube and Tight Buffered
- Simplex and Duplex
 Distribution and Break-out cables
- Indoor/Outdoor
- Self-supporting
- Armoured
- **Fibre Splicing and Terminating**
- Mechanical and Fusion Splicing
 Types of fibre connector
- Hot and Cold Cure Termination
- Mechanical Termination
- Fiber Connector Types (Styles)
- Flat Fiber Connector
- PC Fiber Connector
- UPC Fiber Connector
- APC Fiber Connector
- **FIBER OPTICS CONTENT Inspecting and Cleaning Optical Fiber**

Connectors

- Core alignment. Physical contact.

DCT - INFR- SC





• EMI - Pristine connector interface

• Power Separations Signal Degradation

- Installation Practices Dispersion
- Cable Management Attenuation
- Bend Radius Scattering
 Cable Stacking Height Absorption
 Cable Stress Factors Affecting Splice Points
- Cable Support

Designing Fibre Optic Cabling in the Local Area Network

- Rack Clearance
- Equipment Locations Fibre vs Copper
- Mounting Connecting Hardware Fibre in the LAN
- Earthling And Bonding Channel Classifications
- Cable Pulling Channel Attenuation
 Cable Termination Optical Fibre Categories

Testing - Fibre Cable Classifications

- Permanent Link Testing Fibre Channel Lengths
 Channel Testing Optical Fibre Applications
 Test Parameters Fibre Cabling Design

Administration - Fibre in the Work Area

• Labels

Fibre Optic Safety

- Records Chemical Hazards
- Administration Classes (1-4) Optical Hazards

Warranties – Fibre Fragments • Test Results – Environment • Warranty Registration Form

- Safety for Everyone

Fibre Optic Cable Installation

- Conduct a thorough site survey prior to cable placement.

- Develop a cable-pulling plan.
- Follow proper procedures.
- Do not exceed cable minimum bend radius.
- Do not exceed the cable maximum recommended

load

- Document the installation.

Fibre Optic Testing

- Types of tests required
- Flashlight and Visual Fault Locator
 Fibre Microscope
- Attenuation testing using Light Source and Power
- Meter
- Channel Attenuation Calculation
- Optical Time Domain Reflectometer

Fiber Troubleshooting

- Verifying the problem.
- Isolating the source of the problem.
 Repairing the problem.
- Testing the repaired system to ensure that it functions correctly.





DCT Data Center Power

Duration: 1 Day

Course Code: DCT-DC-ECP

Overview:

The DCT Data Center Power course dives more deeply into the electrical and power systems and components that support data centers. With data centers using about 5% of the world's energy and growing, these power systems are ever-expanding and improving. The Course covers the many aspects of the most typical electrical systems and equipment for data centers, including terminology, standards, acronyms, operation, efficiency, and more.

Target Audience:

- Architects
- Engineering design professionals
- Facilities operations
- Contractors
- Technicians
- Electrical engineers, technicians, operators

Objectives:

- Introduction to data center electrical and power systems
- Redundancy concepts for electrical distribution and equipment
- Understanding of electrical equipment, systems, and controls
- How differing priorties and data center types change the electrical

design

Pre-requisite

Basic understanding of data centers, layouts, and common terms.

Course Outline

- Concepts, path of power, and diagrams typical electrical terms, power path from grid to chip, and redundancy levels
- Voltages and primary equipment AC/DC power, the major electrical equipment that supports all of the data center power needs
- UPS systems and components primary & secondary purposes, types, operations, and efficiencies
- Power distribution PDUs, RPPs, power monitoring, controls, receptacles & plugs
- Conductors, conduits and breakers protection devices, standards,
- sizing, switches and other devices



DCT Data Center Essentials

Duration: 1 Day

Course Code: DCT-DC-ESS

Overview:

Data centers play such significant roles in our business and personal lives, yet not many people really know what they are. Often referred to as "the cloud" where our data is stored and processed, they are much more than this; they power the internet giving us the ability to pay bills online, access our emails, obtain money from ATM machines, watch movies, communicate around the world and to carry on what is now considered a normal, fiercely technological lifestyle.

This program has been designed to help de-mystify the complex world of data centers. It provides an overview of what data centers are, what they do and why we need them. Key aspects relating to basic design and design philosophies are also examined and the essential considerations of data center management such as operational processes, energy management and facility management are explored along with their relationships to overall business strategy.

Target Audience:

This program has been designed for individuals who are either new to the data centre sector (technicians with limited experience or exposure to data centre facilities) or for those who sell products and services to the data centre sector.

Objectives:

Different factors drive the need for a data

center: •Driving factors for a data center

•Data center standards

•Data center availability models and cons

Content:

MANAGING A DATA CENTER

For a data center to be effective and efficient in its operations, management is key, consider: •Regulations, best practices, and operational processes

•Change management processes -MAC's.

- Efficient & efficient energy management
- •Commissioning & decommissioning processes
- •Information Technology & physical security management

FACTORS ENHANCING DEPENDABILITY OF A DATA CENTER

- Ability to be relied upon
- Ability to be available as and when needed.
- Duplication of components
- Classification of data center Tier levels

MAIN COMPONENTS OF DATA CENTER

- I.T components
- Power components
- Cooling components
- Auxiliary components fire, security, BAS

Pre-requisite

There are no specific pre-requisites for this program however some awareness of the data centre industry would be advantageous.

DATA CENTER ACTIVE EQUIPMENTS SPACES

- Data center spaces
- Recommended Layouts
- Space cleaning
- Approach to commissioning

MANAGING DATA CENTER SUPPORTING SPACES

- Cooling system spaces
- Power system spaces
- Fire protection spaces
- Network infrastructure spaces
- General offices & security spaces

MANAGING DATA CENTER SECURITY, SAFETY, NETWORK & I.T

•Safety precaution measures

- Managing Security
- •Managing Fire protection
- Managing network
- •Managing I.T infrastructure



Duration:5 Days

DCT Security Management, Planning & Asset Protection

Course Code: DCT - INFR - SM-PAP

Overview:

Security and Management are two key elements for the successful development and progression of any leading business. Effective security management, personnel, and systems must integrate and support the business to secure key assets, rather than restrict its operation. As quickly as companies develop, so too do the risks and threats that they face. These risks and threats can primarily stem from internal sources such as Personnel and Information Technology/Systems or external sources such as environmental disasters or terrorism. Some of these threats, security management can directly control, others it cannot. Successful security management will ensure that the company assets have been identified, evaluated for risk, and appropriate safeguards implemented to address the identified threats, such as Crisis Management Planning and Business Continuity Plans. Risk Analysis and Security Surveys are essential tools for security and management professionals. Objective ways of identifying and quantifying risk on a strategic, management, or operational level is a persuasive tool to gain senior executive support. This course will identify and provide the delegates with the leading practices for risk assessment and quantification, key asset identification, vulnerability assessment, and how to document appropriate safeguards in relevant plans, to mitigate risk and liability. Leading companies can no longer view their security departments and employees as lower tier functions. To ensure departments function effectively within the realm of the larger corporate objectives, manage and lead their teams to achieve effective security plans and programs that can be implemented successfully. To achieve a consistent level of best practice the security professional needs to understand the needs of his industry, his team, and his security projects. The course is structured to equip delegates with the specialist security knowledge to perform their management and supervisory duties to international standards in both security planning and

Target Audience:

Security Supervisors and Managers ,HSSE & Fire Personnel ,Facility or Building Managers

Objectives:

- Learn the best management practice and how to apply these principles
- Plan security projects and implement them effectively
- 💼 Create a protection program to protect intellectual property in addition to physical
- 🧧 assets Run a proactive professional security team

Content:

- Unit 1: Issues of Security Management:
- Strategic and Operation Management
 The Management of Risk
 Crime Management and Prevention
 Management Standards
- **Unit 2:** The Importance of Security Planning:
- Legal Obligations
 Loss of Reputation
 Planning and Managing Security Projects
 Principles of Emergency Response and Recovery
- Unit 3: Threats to Assets:
 - Understanding Loss
 - Key Point Identification
 - •Risk Analysis
 - Security Survey
 - Intellectual Property / Computer Security
 Evacuation Planning

- **Unit 4:** Principals of Asset Protection:
 - Physical Security
 Perimeter Security and Access Control
 Security Lighting
 - •Communication and Control Centres
 - Investigations / Interviewing
 Special Risks
- Unit 5: Implementing Asset Protection Program:
- •Crisis Management Plans •Business Continuity Plans
- Business Con
 Mutual Aid
- Communication Strategies
- •Dealing with the Media

DCT - INFR - SM-PAP



DCT Data Center Cooling

Duration: 1 Day

Course Code: DCT-DC-COOL

Overview

The DCT Data Center Cooling course, covers the mechanical cooling systems that support data centers and prevent them from overheating. As the data center power and density has increased every year, the need to remove the heat generated has become a more important factor for the design and operation of the facility.

Target Audience:

- Architects
- •Engineering design professionals
- •Facilities operations
- Contractors
- Technicians
- Mechanical engineers

Objectives:

- Introduction to data center cooling and mechanical systems
- Redundancy concepts for mechanical and cooling systems
- Understanding of mechanical & plumbing systems and controls
- How differing priorities, locations, and more change the cooling design

Pre-requisite

Basic understanding of data centers, layouts, and common terms.

Course Outline

- Concepts, definitions, operating conditions the typical mechanical terms, cooling operations, and redundancy levels
- Air cooling solutions air cooling and operating parameters for typical and atypical data centers
- Computational Fluid Dynamics what it is, how these tools are used, and what to look for when analyzing a data center flow model
- Water cooling solutions water cooling components, circulation, and typical arrangements for modularity and redundancy
- Water system operations operating the data center cooling systems efficiently and effectively, including water cooled servers and immersion cooling





DCT END-USER CYBERSECURITY AWARENESS

Duration: 2 Days

COURSE CODE: DCT - INFR - EU-CA

Overview

Designed to give learners an understanding of how to secure their data and devices while using organizational or personal resources.

Introduction to Cybersecurity What is Cybersecurity? Understanding the Security Triangle: Confidentiality, Integrity, Availability Non-Repudiation A look at major Data Breaches across the globe and their impacts Common forms of security breaches Social engineering Password breaches Phishing Malware breaches, Ransomware, Spyware, and viruses Insider threats Identity Theft

Legal, ethical, and professional practices Cyber Security laws Data protection Laws Legal liability

Security policies in organizations

Indicators of Compromise Detecting breaches Reporting breaches Setting up your cyber security Password Security Physical Security Data protection on decommissioned devices Data Backup Security on wireless Networks Mobile devices security

- Family Online Safety and Parental Control
- •



Certified in Cybersecurity

Course outline

Chapter 1: Security Principles

- Module 1: Understand the Security Concepts of Information Assurance • Module 2: Understand the Risk Management Process
- Module 3: Understand Security Controls
- Module 4: Understand Governance Elements and Processes
- Module 5: Understand (ISC)² Code of Ethics

Chapter 2: Incident Response, Business Continuity and Disaster Recovery Concepts

- Module 1: Understand Incident Response
- Module 2: Understand Business
 Continuity Module 3: Understand Disaster
- Recovery

Chapter 3: Access Controls Concepts

- Module 1: Understand Access Control Concepts Module
- 2: Understand Physical Access Controls
- Module 3: Understand Logical Access Controls
- **Chapter 4: Network Security**
 - Module 1: Understand Computer Networking
 - Module 2: Understand Network (Cyber) Threats and Attacks
 Module 3: Understand Network Security Infrastructure

Chapter 5: Security Operations

- Module 1: Understand Data Security
- Module 2: Understand System Hardening
- Module 3: Understand Best Practice Security Policies • Module 4: Understand Security Awareness Training





DCT Cloud Essentials

Duration: 2 Days

Course Code: DCT - INFR - CE

Overview:

DCT Cloud Computing Essentials gives an insight into how Cloud computing helps individuals and organizations to take advantage of the cost/benefit of moving from on-premises equipment to cloud computing with faster and reliable internet. The course is suitable for people planning to migrate to the cloud and helps to understand concepts of cloud computing on computing and storage. Cloud computing provides a superior alternative to traditional on-premises Server, Networking and storage equipment. The benefits are reduced costs, speed, scalability, productivity, and reliability. Cloud computing allows users to remotely access unlimited data storage and software over the internet without the need for expensive hardware in every business location.

Target Audience:

This program has been designed for individuals who are either new to the data centre sector (technicians with limited experience or exposure to data centre facilities) or for those who sell products and services to the data centre sector.

Course Outline:

- What is Cloud computing
- Cloud Models
- Cloud Service Models
- Current cloud technologies
- Cloud Business Value
- Cloud Infrastructure Planning
- Strategies for cloud Adoption
- Applications in the cloud
- Cloud service Rollout
- Cloud Service Level
- Management Security in the
- cloud
- Privacy and compliant



DCT Wireless Essentials

Duration: 2 Days

Course Code: DCT - INFR - WE

Overview:

The DCT Wireless Essentials is a practical course for companies and Individuals planning to deploy a secured Enterprise Wireless System. Wireless technology has evolved over the years with the leading trends being security, speed and Frequency. The current wireless technology is 801.11ax (wi-fi 6) and 801.11be (wi-fi 7). The benefits of newer Enterprise Wireless systems are higher throughput, increased capacity, improved performance with many connected devices, improved power efficiencies, and lower latency and support for IoT devices. The new Wireless technology is ideal for video streaming, cloud computing, video calling, video conferencing, remote office etc. The course incorporates Physical Wireless Devices connected to a cloud-based Controller which can be managed from any location with a single pane of glass dashboard showing all wireless access points deployed in the network. The theory and the practical session include designing, installing and deploying efficient secured wireless in any environment.

Target Audience:

This program has been designed for individuals who are either new to the data centre sector (technicians with limited experience or exposure to data centre facilities) or for those who sell products and services to the data centre sector.

Content:

Main Areas Covered by DCT Wireless Essentials :

- Radio Frequency (RF) Technologies
- Antenna Concepts
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