

# Infrastructure of Datacenters (IDC)

ID IDC Preis 2.490,- € (exkl. MwSt.) Dauer 3 Tage

## Zielgruppe

- IT managers whose data center has to reach the level of performance and availability required by their enterprise.
- Real estate managers who have to be ready for new power and thermal management required today
- Integrators who offer owner assistance and project management in line with international standardization and assure the sustainability of the proposed and installed solution.
- Manufacturers, their marketing, training, engineering and commercial staffs to integrate their solutions in this new environment.

## Voraussetzungen

This training requires a basic level for power, network cabling system over copper and fiber optics.

## Kursziele

The information technology, initially to the automation of repetitive tasks of internal accounting dedicated, is now at the heart of the commercial or technical business throughout the world. Equipment manufacturers meet this new burden of data processing by the marketing of ever more powerful and consumer of energy computers. These equipments require entirely new computer rooms or data centres. Most of data centres don't meet these new technologies and are daily taking risks, including the major risk which is the total shutdown. This training meets all the concerns generated by the weak infrastructures of data centres, and can prepare for any refurbishment or new design with the main objectives of sustainability, availability and reduced energy consumption by more and more expensive. This formation provides you the knowledge and skills related to data centres infrastructures, urbanization, the pooling of different systems implemented, and their operation.

### Introduction to data centres

- What is a data center according to the standard

- What are the different systems constituting the infrastructure of a data centre
- What is the first issues of a data centre

### Standards

- TIA
- ISO
- Cenelec
- BICSI

### Availability

- The "Tiers" or levels of availability
- The standards definition
  - Design N + 1
  - Design S + S
  - Concurrently maintainable
  - Fault tolerant

### Thermal management

- Air conditioning
- The concept of hot / cold aisles
- Confined hot aisle
- Confined cold aisle
- Raised floor
- Suspended ceiling
- Cooling
- Blade servers management

### Power Management

- Design
- Generators
- Uninterruptible Power Supplies
- Power Distribution Unit's

### Hardware

- Cabinets
- Racks
- The top of row topology
- The end of row topology

#### Bonding and grounding

- Cabling system
- Cabinets
- Raised floor

#### Pathways

- Topology
- Data cabling system
- Power cabling systems

#### Data cabling system

- Topology
- Unshielded cabling system
- Shielded cabling system
- Multimode fibre optic cabling system
- Singlemode fibre optic cabling system
- Preconnectorized cabling system
- 10Gbps Ethernet
- 40Gbps Ethernet
- 100Gbps Ethernet
- Other technologies
- Patching

#### Infrastructure management

- Maintenance
- Move, add and change

#### « Green » and data centre efficiency

- Virtualization
- PUE & DCIE
- Economies in Euros

#### Introduction to security

- Fire protection
- Video surveillance : The IP trend
  - Power over Ethernet
- Access control : The IP trend

The Code of Conduct on Data Centres Energy Efficiency,  
European Commission, Directorate General Joint Research  
Centre, Institute for Energy, Renewable Energies Unit

- Environmental statement
- Aims and objectives
- Commitments and monitoring

# Über Fast Lane



Fast Lane ist weltweit, mehrfach ausgezeichnete(r) Spezialist für Technologie und Business-Trainings sowie Beratungsleistungen zur digitalen Transformation. Als einziger globaler Partner der drei Cloud-Hyperscaler Microsoft, AWS und Google und Partner von 30 weiteren führenden IT-Herstellern bietet Fast Lane beliebig skalierbare Qualifizierungslösungen und Professional Services an. Mehr als 4.000 erfahrene Fast Lane Experten trainieren und beraten Kunden jeder Größenordnung in 90 Ländern weltweit in den Bereichen Cloud, künstliche Intelligenz, Cybersecurity, Software Development, Wireless und Mobility, Modern Workplace sowie Management und Leadership Skills, IT- und Projektmanagement.



## Fast Lane Services

- ✓ Highend-Technologietraining
- ✓ Business- & Softskill-Training
- ✓ Consulting Services
- ✓ Managed Training Services
- ✓ Digitale Lernlösungen
- ✓ Content-Entwicklung
- ✓ Remote Labs
- ✓ Talentprogramme
- ✓ Eventmanagement-Services

## Trainingsmethoden

- ✓ Klassenraumtraining
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Klassenraum und ILO kombiniert
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobiles Lernen

## Technologien und Lösungen

- ✓ Digitale Transformation
- ✓ Artificial Intelligence (AI)
- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
- ✓ Modern Workplace
- ✓ Data Center



**Weltweit vertreten**  
mit High-End-Trainingszentren  
rund um den Globus



**Mehrfach ausgezeichnet**  
von Herstellern wie AWS, Microsoft,  
Cisco, Google, NetApp, VMware



**Praxiserfahrene Experten**  
mit insgesamt mehr als  
19.000 Zertifizierungen

### Deutschland

Fast Lane Institute for Knowledge  
Transfer GmbH  
Tel. +49 40 25334610  
info@flane.de / www.flane.de

### Österreich

ITLS GmbH  
(ITLS ist ein Partner von Fast Lane)  
Tel. +43 1 6000 8800  
info@itls.at / www.itls.at

### Schweiz

Fast Lane Institute for Knowledge  
Transfer (Switzerland) AG  
Tel. +41 44 8325080  
info@flane.ch / www.flane.ch