WEBINAR

Pathway to Data Center Certification

Joseba Calvo

Managing Partner, EPI Americas



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Information Classification: General

Today's Speaker



Joseba Calvo

Managing Partner, EPI Americas

- CDCE® CTDC® CTIA® CDFOM® CDMS® CD RP® CITM® CDESS® (Certified Data Center Environmental Sustainability Specialist), CRUR® Auditor
- ISO 14064 (Greenhouse gases CO2e Data Center emissions/removals), SS564 (Green Data Center), ISO 27701 (GDPR), ISO 27001, ISO 22301, ISO 20000 & ISO 50001, DCOS and TIA-942 Lead Auditor, Digital Transformation Certified Trainer
- TIA-942 Committe Member, DCOS Committee Member

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Takeaways after this webinar

- How you can build a Data Center Career Plan based on competences for yourself and/or your team?
- Data Center Job Description including competences
- What is the Data Center Framework?



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THEONLY THING MORE EXPENSIVE THAN EBUCATION IS 00110



CFO:

What if we train our people and they'll LEAVE?

CEO:

What if we don't train them and they'll STAY?

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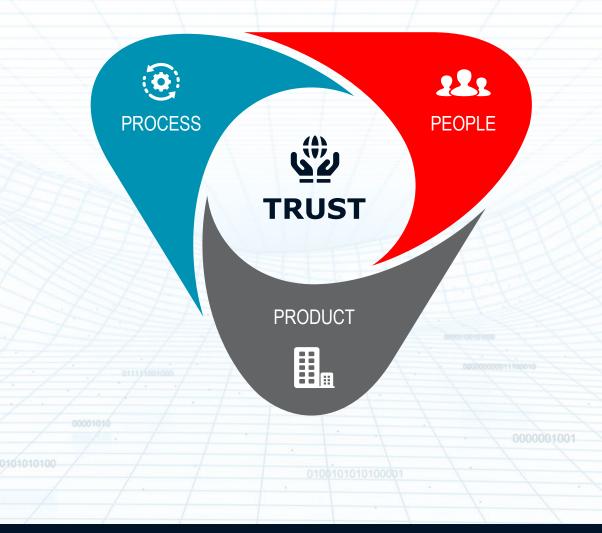








The 3 P's!





The 3 P's!





Facilities Certification

- EPI is a Registered & Accredited **Certification Body**
- Facility Standards Covered
 - ANSI/TIA-942
- Qualified and experienced lead auditors in all continents
- Internally developed audit tool set for stringent but efficient audits and reporting

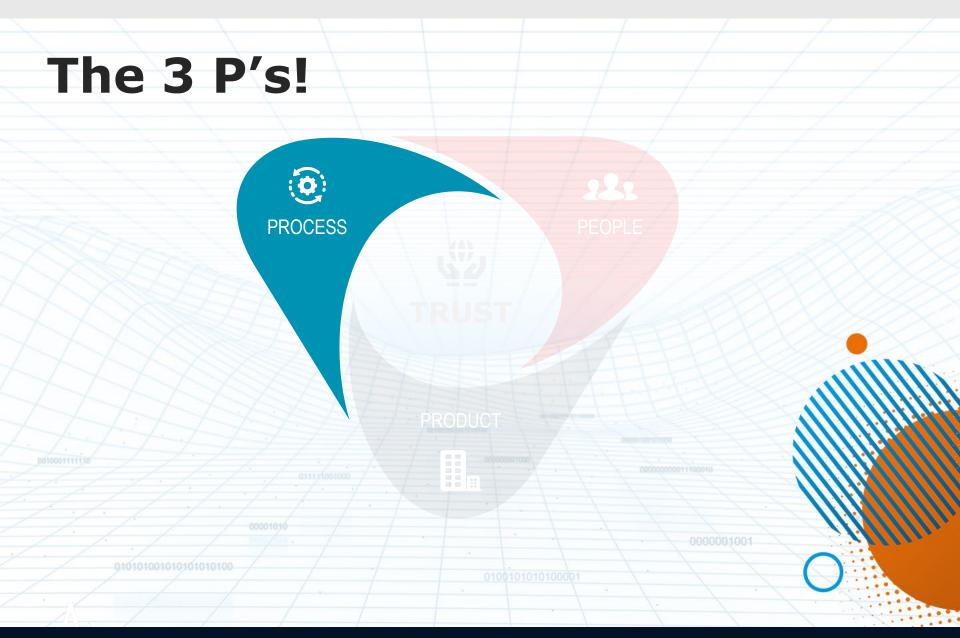














Minimum Maturity Level required in any Data Center is 3

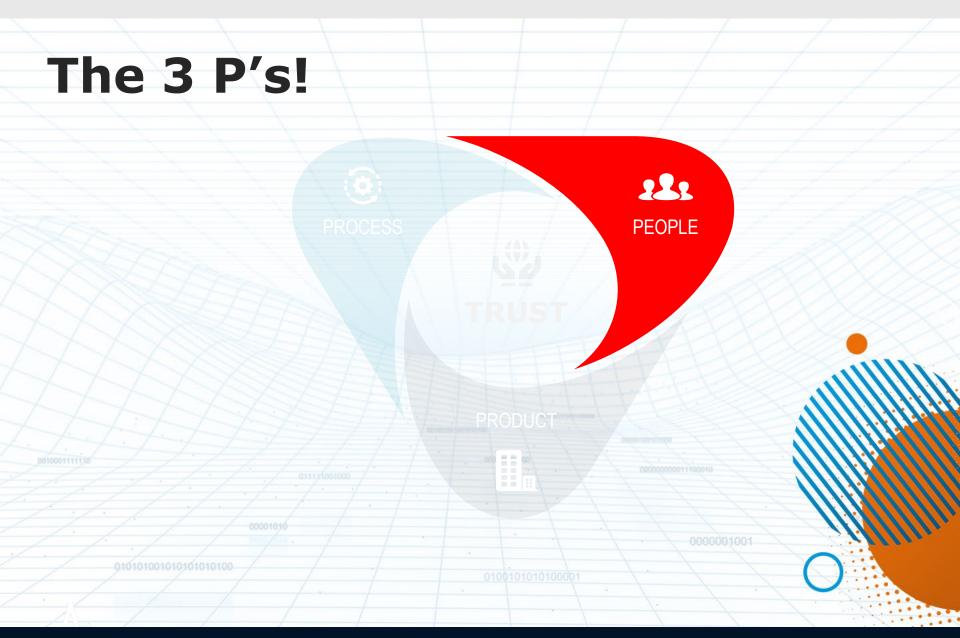


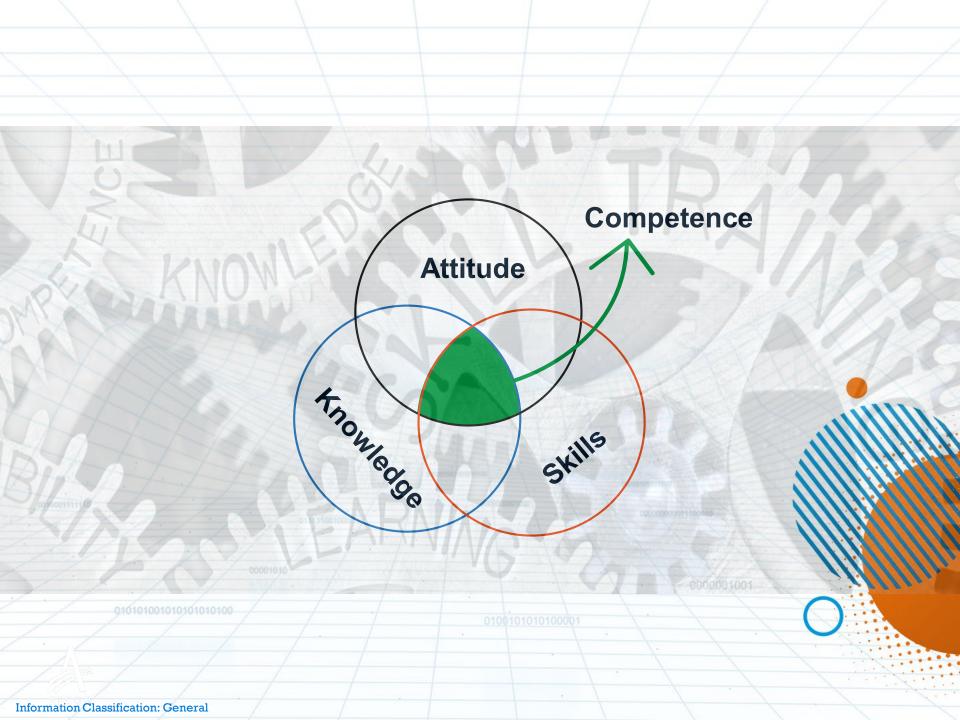
Data Center Operations



Data Center Reliable Service
- Maturity Level







Four stages of competence



Information Classification: General

Facilities Maintenance Skills matrix	P	J	J	Y	Е	
	E	A	О	U	T	
	T	Y	S	S	C	
	E		Н	U		
	R			F		
UPS Brand-A/Model-xx	E	Е	P	P		
UPS Brand-A/Model-yy	E	S	S	P		
Chiller Brand-A/Model-xx	\times	>	Е	\times		
CRAC Brand-A/Model-xx	\times	\searrow	P	Е		
Etc.]

Facilities Maintenance Classifications (high level version)

Classification

Competencies (minimum requirements)

Professional (P)

- Perform basic read out of the alarm panel and classify the alarm messages based on severity
- Perform read out of basic parameters and status of equipment

Specialist (S)

- · All knowledge/skills as described in the Professional level, plus
- · Perform shutdown and startup procedures

Expert (E)

- All knowledge/skills as described in the Specialist level, plus
- Ability to disconnect and reconnect system from the rest of the infrastructure (where applicable)
- · Perform system calibration and setup
- Perform diagnostics and repair at Spare Part Kit Level-1

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I.1 Master Resource Matrix (MRM)

low is an example of a Master Resource Matrix

	#	Office Hou	rs	# Out-Of-Office Hours			# Breaks			
	On	On	Stand	On	On	Stand	On	On	Stan	
	Duty	Duty	by	Duty	Duty	by	Duty	Duty	by	
Function		Backup			Backup			Backup		
Security Manager	1	1		1	1		1	1		
Safety Manager	1	1		1	1		1	1		
Operations	1	1				1			1	
Manager										
Floor Manager	1	1				1			1	
Telecoms Engineer	2					1	1		1	
Data Center	3			1		1	1		1	
Engineer										

The Detailed Resource Matrix maps the requirements of the MRM against actual names of the staff deployed by the organization.

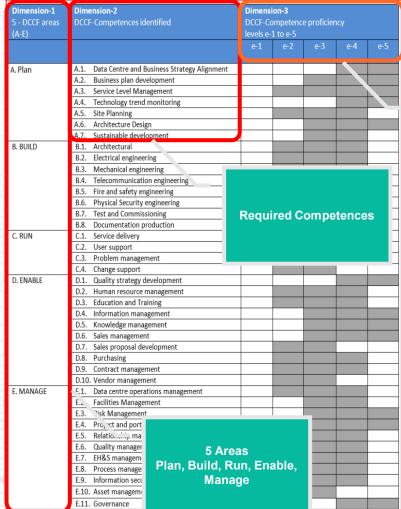
Resource Schedule; Week-1 (dd-mmm-yy) – (dd-mmm-yy)

	# Office Hours			# Out-Of-Office Hours			# Breaks		
	On	On	Stand	On	On	Stand	On	On	Stand
	Duty	Duty	by	Duty	Duty	by	Duty	Duty	by
Function		Backup			Backup			Backup	
Security Manager	Brian	Carrie		Peter	John		Brian/	Carrie/	
							Carrie	Brian	
Safety Manager	Brian	Carrie		Peter	John		Brian/	Carrie/	
							Carrie	Brian	
Operations	Dave	Carol				Dave			Carol
Manager									
Floor Manager	Carol	Dave				Dave			Carol
Telecoms Engineer	Charlie/					Carlie	Charlie/		Don/
	Don						Don		Charlie
DC Engineer	Sarah/			Mike		Lee	Sarah/		Lee/
	Mark/						Lee		Sarah
	Lee								

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Competences Framework



5 Competence levels

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Data Center Career Plan

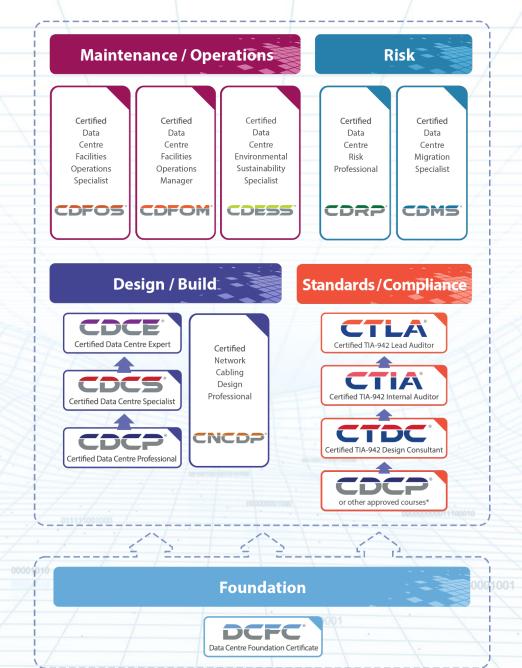
9.1 Data Centre Manager

Profile title	Data Centre Manager							
Summary	Develops, operates, guides and maintains a data centre which is compliant to relevant							
statement	standards/codes and meets the business needs.							
Mission/general	_	on for the data centre (organiza	•					
skills description	strategic business plan. Translates the mission and vision, together with his management							
	team and sets the tactical strategy and operational objectives. Has overall responsibility and							
	accountability for the strategy, the financials and the operational result.							
Deliverables	Accountable Responsible Contributor							
	Strategic business plan	Business requirements	ICT strategy					
		Financials						
		 Management business 						
		review						
Main task/s		bility: Profit and Loss (CapEx, C	•					
		ess strategy to support the ICT e						
		ind management of customer-su						
	_	ce with Service Level Agreemer						
		with vendors, suppliers and this	ro parues					
	Make recommendations to g	, .						
	Responsible for the operation	nal results and human resource i	management					
DC-Competence	A.1. Data Centre Business and	Strategy Alignment	Level 5					
(From DCCF [©])	A.2. Business Plan Development Level 5							
	D.2. Human Resource Management Level 4							
	E.5. Relationship Management Level 4							
	E.11. Governance		Level 4-5					
KPI area	Overall added value, efficiency and effectiveness of the data centre							
EPI-DC	All disciplines							
Framework®								
Disciplines	<u> </u>							
EPI courses	Required;							
	• CDCP							
	CDCS CNCDP							
	• CDFOM							
	• CDESS							
	CDESS							
	Added value;							
	• CDCE							
	• CDRP							
	• CTDC							
	• CDMS							
	• CITM							



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Data Center

Framework

Training





Certified Network Cabling Design Professional



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Maintenance / Operations

Certified Data Centre **Facilities** Operations Specialist

CDFOS CDFOM

Certified Data Centre **Facilities** Operations Manager

Certified Data Centre Environmental Sustainability Specialist

CDESS





Certified
Data
Centre
Risk
Professional

CDRP

Certified
Data
Centre
Migration
Specialist

CDM5

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Standards/Compliance





To be released 2024







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3 free resources

1 DCCF (Data Centre Competence Framework)



2 Data Centre Training Quick Guide



3 DCPT (Data Centre Career Planning Tool)



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Thank you!



EPI Americas

777 Brickell Avenue, Suite 500 (5 piso), Miami, FL, 33131, USA

Phone: +1 305 721 2887









Mobile: +1 330 608 4218 ● Email: Joseba Calvo, Managing Partner EPI LATAM | joseba@epi-ap.com



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