Technical Training Scheme of Work / Session Planner (2022-23)

Course Title	Pexip Self-Hosted Certified Technology Expert Level 2	Subject / Unit / Module Name	2 Day Live Training Event CTE-SHL200		Academic Year	2022-2023
Broad aim of Subject / Unit / Module	**LO1.** Configure Pexip Management Nodes and Pexip Conferencing Nodes. **LO2.** Demonstrate product use and administrator tasks. **LO3.** Demonstrate integration capabilities in Pexip solutions. **LO4.** Demonstrate the communication technologies supported by Pexip Infinity.	No of sessions	2	Duration of session(s)	6 hrs	Trainer	TBC

	Assessment Outcome / Assignment Number	Assessment method	Assignment issue date	Assignment hand in date	Feedback date
Assessment plan	1. LO1	Lab 1 exercises	Training day 1	End of lab session	Within 5 working days
	2. LO2	Lab 2 exercises	Training day 1	End of lab session	Within 5 working days
	3. LO3	Lab 3 exercises	Training day 2	End of lab session	Within 5 working days
	4. LO4	Lab 4 exercises	Training day 2	End of lab session	Within 5 working days

The intention of the certification in relation to the knowledge, skills, behaviours and attitudes that will be developed to support	On successful completion of this course the learner will be able to: • Configure Pexip Management Nodes and Pexip Conferencing Nodes • Demonstrate product use and administrator tasks • Demonstrate integration capabilities in Pexip solutions • Demonstrate the communication technologies supported by Pexip Infinity

learner's progression and their destinations	As a result the learner will demonstrate be able to display the following competencies that will contribute to their workplace roles and responsibilities: • Demonstrate how to successfully deploy the Infinity product. • Demonstrate the Pexip Infinity environment requirements for deployment • Demonstrate how to configure a basic Pexip Infinity deployment • Describe the fundamental operations of an Infinity deployment • Describe the communication technologies supported by Pexip Infinity • Demonstrate how to successfully configure Pexip Infinity conferencing services. • Demonstrate how to successfully use Pexip Infinity conferencing services. • Describe the key functionality of the Pexip Infinity services. • Demonstrate how media flows in the Pexip Infinity system • Describe how media flows in a correctly configured Pexip Infinity system • Demonstrate how to configure the Pexip Infinity system with a 3rd party integration • Describe the various integrations possible in the Pexip Infinity system • Describe various end users 'join' experiences within the Pexip Infinity system • Demonstrate how to customise the end user experience within the Pexip Infinity system • Describe how to customise the end user experience within the Pexip Infinity system • Demonstrate essential regular administrative duties for an Pexip Infinity system • Describe essential regular administrative duties for an Pexip Infinity system.
Key Sources of Information / Texts	LMS https://www.dropbox.com/sh/0wruqsgne0ti6a0/AABEixua1qWKd31aGB82DuSZa?dl=0 https://docs.pexip.com
Health & Safety	To ensure that the health and safety of all participants is kept as a priority, risk assessments will be carried out prior to any practical activity to ensure that all risks have been thought about and reduced or mitigated where possible.
How is Diversity and Inclusion promoted in learning	In order to ensure inclusion within the (virtual) classroom, learners will be encouraged to work in groups to ensure that learners regularly share their experience and knowledge with others in the classroom and ensure that learners are able to effectively support each other. Equality and diversity will be supported by regularly pursuing case studies from around the globe to explore the issues from different viewpoints.

	YOU SESSION SHOULD EITHER BE VIRUTALLY OR IN PERSON DELIVERY – NEVER A MIX.

Trainer Prep:	• **Prior to the 3 day event the trainer will need to ensure all preparation tasks have been carried out;** • Lab pods have been booked in the Training Calendar • **All learners have successfully complete CTE Level 1 – Fundamentals.** • **All learners have been enrolled into a session group on the LMS CTE Level 2 with access to resources and materials required to participate in the live labs.** • **Booking Event has been added for all three session dates, and learners added as attendees.** • Send Invitations (virtual / in person) with agenda overview attached and details joining instructions / prep tasks have been sent via Training calendar in OutLook to those learners. • Re virtual – all IP addresses have been recorded for access to the session. • The labs cleared down from previous session. • Power down Teams connector. • You know where all the training material is. • Power up Teams connector before your day 1 session. • Complete your Group sheet with all learners attending this course: • **Have been put into groups of either 2 to work collaboratively through the lab exercises.** • **Have access to https://my.rec.vc/login#/ to record sessions** **Post event the Trainer will be require to check all evidence of labs exercises emailed, demonstrates successfully the required learning outcomes.**

Day	Topic	Learning Activities What activities will students do to learn content?	Learning Outcomes What learners will be able to do by the end of the session? To include specific	Assessment of Learning How do you plan to assess whether all learners have met the learning outcomes?	Resources Which resources will you need? Add hyperlinks to materials

			differentiated activity to stretch and challenge students		
Day 1 / session 1 3 hrs	Lab 1 Introduction through to deployment – 2.5 hours	Meet and greet Agenda overview Tasks for today – specification and PPT (If virtual, advise that session is being recorded). (10 mins) **Section 1 Planning to get it right -** Lecture on Summary of foundational theory knowledge covered in CTE level 1 , Pexip infinity a distributed system and architecture with an emphasis on NUMA pinning. (30 mins) Introduction and information you need to access the main lab environment. (10 mins)	LO1	Class Q&A / Observation. Group tasks screenshots doc	PC/Laptop / Web access /webcam / mic / speakers. / LMS / VLAN / RDP / vCenter / PPT / Trainer lab PDF guides / REC VC to record your sessions **Learner interactive workbooks contain lab guides group sheets & labs worksheet template for screenshots. (All source content is stored on Github)** DAY 1 https://pexipacademy.h5p.com/content/1291326881474946327 DAY 2 https://pexipacademy.h5p.com/content/1291665780169407757 **Learner's takeaways** **Session A Lab Environment** Main VMRs tech.training.a@pexipdemo.com and https://pexipdemo.com/webapp/?conference=tech.training.a Deck Trainer Built deployment **https://mgr.vc20-osl.pexip.net/** Trainer Demo deployment https://mgr.vc11-osl.pexip.net/ **10.247.180.110** **https://mgr.vc1-osl.pexip.net/** **https://mgr.vc2-osl.pexip.net/** **https://mgr.vc3-osl.pexip.net/** **https://mgr.vc4-osl.pexip.net/** **https://mgr.vc5-osl.pexip.net/** ```10.247.180.10 mgr.vc1-osl.pexip.net 3210.247.180.20 mgr.vc2-osl.pexip.net 3310.247.180.30 mgr.vc3-osl.pexip.net 3410.247.180.40 mgr.vc4-osl.pexip.net 3510.247.180.50 mgr.vc5-osl.pexip.net```

- Set tasks for section 1 set-up and access main lab environment (45 mins)
- 10 min break

Section 2 Demo information about the deployment and integrations you will complete as part of this course. (15 mins)

- Set tasks for section 2 Deploy the Management Node, set-up locations, configure conferencing nodes, activate Pexip licence, test & evidence (60 mins)

Q&As & Plenary. (15 mins) - LUNCH

Session B Lab Environment
Main VMRs
and
tech.training.b@pexipdemo.com
and
https://pexipdemo.com/webapp/?conference=tech.training.b

Trainer Built deployment **https://mgr.vc20-osl.pexip.net/**
Trainer Demo deployment https://mgr.vc12-osl.pexip.net/ **10.247.180.120**
https://mgr.vc6-osl.pexip.net/
https://mgr.vc7-osl.pexip.net/
https://mgr.vc8-osl.pexip.net/
https://mgr.vc9-osl.pexip.net/

```
36 10.247.180.60    mgr.vc6-osl.pexip.net
37 10.247.180.70    mgr.vc7-osl.pexip.net
38 10.247.180.80    mgr.vc8-osl.pexip.net
39 10.247.180.90    mgr.vc9-osl.pexip.net
```

VMR breakout rooms :
tech.training.a.vc1@pexipdemo.com
tech.training.a.vc2@pexipdemo.com
tech.training.a.vc3@pexipdemo.com
tech.training.a.vc4@pexipdemo.com
tech.training.a.vc5@pexipdemo.com
tech.training.b.vc6@pexipdemo.com
tech.training.b.vc7@pexipdemo.com
tech.training.b.vc8@pexipdemo.com
tech.training.b.vc9@pexipdemo.com

Group 1 (VC1):

| | | | | | Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc1
sip:tech.training.a.vc1@pexipdemo.com
Group 2 (VC2):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc2
sip:tech.training.vc2@pexipdemo.com
Group 3 (VC3):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc3
sip:tech.training.vc3@pexipdemo.com
Group 4 (VC4):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc4
sip:tech.training.vc4@pexipdemo.com
Group 5 (VC5):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc5
sip:tech.training.vc5@pexipdemo.com
Group 6 (VC6):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc6 sip:tech.training.vc6@pexipdemo.com
Group 7 (VC7):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc7
sip:tech.training.vc7@pexipdemo.com
Group 8 (VC8):
Web
 - https://pexipdemo.com/webapp/conference/tech.training.vc8 |

					• sip:tech.training.vc8@pexipdemo.com Group 9 (VC9): • Web - https://pexipdemo.com/webapp/conference/tech.training.vc9 • sip:tech.training.vc9@pexipdemo.com

Day 1 / session 2
4 hrs
	Lab 2 Interop through to integration -3.5 hours	**Section 1** Lecture & demo switching from a Transcoding Edge Node to a Proxying Edge Node (5 mins)
		• Set tasks for section 1 switching node role, test and evidence.(5 mins)
		Section 2 Lecture & demo TLS Certificates (10 mins)
		• Set tasks for section 2 TLS certs, test and evidence. (35 mins)
		Section 3 Lecture & demo create PexipEPs to test
			LO1 LO2	Class Q&A / Observation.
				Group tasks screenshots doc
				Kahoot
				LMS–short assessment exercise
					PPT / Trainer lab 2 PDF, Learner lab guide: Learner lab 2 / lab 2 worksheet template
					
					Pexip EndPoints PexEPs.
					    Internal (LAN):
					    http://10.247.180.6/gui/ - SD
					    http://10.247.180.7/gui/ - HD
					    External (DMZ):
					    US: http://us-pexep.pex.me
					    Europe: http://no-pexep.pex.me
					    Australia: http://au-pexep.pex.me

		Virtual Auditorium (10 mins) • Set challenge for section 3 create a VA, test and evidence. (20 mins) • 10 min break **Section 4** Lecture & demo create a Virtual Meeting Room (5 mins) • Set tasks create a VMR, test and evidence.(25 mins) **Section 5** Lecture & demo create a Virtual Reception (Lobby / IVR) (25 mins) • Set tasks create a VR, test and evidence. (20 mins) **Section 6** Lecture & demo Infinity Connect Client Registration			

		and Gateway P2P call (10 mins)			
		• Set task register Infinity Connect Client and Gateway P2P call. Test & evidence. (20 mins) Section 7 Lecture & demo Now let's use LDAP for admin access Enable LDAP management login authentication (10 mins) • Set task Enable LDAP management login authentication, test and evidence. (20 mins) **Q&As Q**uiz **& Plenary. (15 mins)**			

| Day 2 / session 3 3 hrs | Lab 3 Media traversal and more integrations – 2.5 hours | **Section 1** Lecture & demo Infinity Connect Client (15 mins) Set tasks Infinity Connect Client, test and evidence. (25 mins) **Section 2** Lecture & demo Google Meet Integration (15 mins) • Set tasks Google Meet Integration, test and evidence. (25 mins) • **Section 3** Lecture & demo Microsoft Teams Integration (20 mins) • Set tasks Microsoft Teams Integration, test and evidence. (35 mins) • Break 10 mins | LO2 LO3 Stretch & Challenge: Extra Credit) Section 4 Skype for Business Integration | Class Q&A / Observation. Group tasks screenshots doc | As day before + PPT / Trainer lab 3 PDF, Learner lab guide, Learner lab 3 / Lab 3 worksheet template (change lab tasks for Google to remove admin login via their VC lab login for google) |

Dependant on your location whether you demo this or you set it as a task

CTE L2 Lab PSTN Telephone number	For Trainers only
+61 8 8004 1156	Pexip Training 20
+33 1 76 27 78 91	Pexip Training 20
+49 211 86943001	Pexip Training 20
+44 1274 003812	Pexip Training 20
+46 10 551 59 63(national)	Pexip Training 20

PSTN numbers for group

CTE L2 Lab PSTN Telephone number	CTE L2 Lab workgroup
+33 1 76 27 72 39	Pexip Training 1
+44 1274 003753	Pexip Training 1
+1 (571) 520-3526	Pexip Training 1
+49 211 86943519	Pexip Training 1
+49 211 86943319	Pexip Training 2
+1 (571) 520-3885	Pexip Training 2
+44 1483 694624	Pexip Training 2
+33 1 76 27 72 38	Pexip Training 2
+49 211 86943347	Pexip Training 3
+33 1 76 27 72 32	Pexip Training 3
+44 1902 943578	Pexip Training 3
+31 97010254598	Pexip Training 3
+1 (571) 520-3907	Pexip Training 3

		Section 4 Set the challenge – configure IVR and Audio / PSTN Connectivity, test and evidence. (25 mins) **Review and Q&AS (15 mins) Lunch**			+49 211 86943512	Pexip Training 4
					+33 1 76 27 72 35	Pexip Training 4
					+49 211 86943506	Pexip Training 4
					+44 1548 802259	Pexip Training 4
					+1 (571) 520-3947	Pexip Training 5
					+49 211 86943338	Pexip Training 5
					+44 1329 756785	Pexip Training 6
					+44 1274 003384	Pexip Training 7
					+1 (202) 519-8563	Pexip Training 8
					+1 (202) 519-9988	Pexip Training 8
					+44 1749 608412	Pexip Training 8
					+1 (202) 519-4932	Pexip Training 9
					+44 1654 557049	Pexip Training 9
					+1 (202) 519-5572	Pexip Training 10
					+1 (571) 520-3927	Pexip Training 11
Day 2 / session 4 3 hrs	Lab 4 Join and user experience - 2 hours	**Section 1** Lecture & demo upgrading Pexip Infinity. (5 mins) • Set Task Upgrade Pexip Infinity, test and evidence.(15 mins) • Break – 10 mins ~~Section 2 Lecture & demo Configure and~~	**LO2 LO3 LO4** **Stretch & challenge: (Extra Credits)** **Section 5 LDAP VMR Sync/Import** **Section 6 NUMA Pinning**	Class Q&A / Observation. Group tasks screenshots doc / Kahoot LMS–short assessment exercises	PPT / Trainer lab 4 PDF, Learner lab guide, Learner lab 4 / lab 4 worksheet template PexClinic – optional pre req to watch teams connector vid.	

		~~Activate Pexip Smart Scale.(10 mins)~~ **Section 2** Lecture & demo Customizing the user experience (UX) (15 mins) - Set task Customizing the user experience (UX), test and evidence. (20 mins) - Peer review (5 mins) - Evaluate your deployment (5 mins) **Section 3** Lecture & demo configuring NUMA Affinity (15 mins) - Set task Configuring NUMA Affinity test and evidence. (20 mins) - Peer review (5 mins)			

		Evaluate your deployment (5 mins) Review, Q&As, Quiz, (15 mins) How to raise a ticket (10 mins) Take-aways (5 mins) Next steps (10 mins) PexClinic and CTE-Diagnostics..			
Summary of group / individual progress made. Trainer reflection including any participant feedback when collected					