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

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| **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 plan** | **Assessment Outcome / Assignment Number** | **Assessment method** | | | **Assignment issue date** | | **Assignment hand in date** | | | **Feedback date** | |
| 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 learner’s progression and their destinations** | 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   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.  **YOUR SESSION SHOULD EITHER BE VIRUTALLY OR IN PERSON DELIVERY – NEVER A MIX.** | | | | | | | | | | |

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| **Trainer Prep:** | | * **Prior to the 2 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. * You know where all the training material is. * 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.**   **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 differentiated activity to stretch and challenge students | **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 |
| 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. (10 mins)  **Section 1** Lecture on Summary of foundational theory knwoedge covered in CTE level 1 , Pexip infinity a distributed system and architecture with an emphasis on NUMA pinning.  (30 mins)  I  ntroduction and information you need to access the main lab environment. (10 mins)   * 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** | **LO1** | **Class Q&A / Observation.**  **Group tasks screenshots doc** | **PC/Laptop / Web access /webcam / mic / speakers. /**  **LMS / VLAN /** [**RDP**](https://rdp-osl.pexip.net/RDWeb/Pages/en-US/login.aspx?ReturnUrl=/RDWeb/Pages/en-US/Default.aspx) **/** [**vCenter**](http://osloeduvcenter.pexip.net/) **/**  [**PPT / Trainer lab 1 PDF**](https://www.pexipacademy.com/mod/folder/view.php?id=1183)**,**  **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/1291600740453219587>  **Session A Lab Environment**  Main VMRs [tech.training.a@pexipdemo.com](mailto:tech.training.a@pexipdemo.com) and <https://pexipdemo.com/webapp/?conference=tech.training.a>  Deck  Trainer Built deployment[**https://mgr.vc20-osl.pexip.net/**](https://mgr.vc20-osl.pexip.net/)  **Trainer D**emo deployment <https://mgr.vc11-osl.pexip.net/> **10.247.180.110**  [**https://mgr.vc1-osl.pexip.net/**](https://mgr.vc1-osl.pexip.net/)  [**https://mgr.vc2-osl.pexip.net/**](https://mgr.vc2-osl.pexip.net/)  [**https://mgr.vc3-osl.pexip.net/**](https://mgr.vc3-osl.pexip.net/)  [**https://mgr.vc4-osl.pexip.net/**](https://mgr.vc4-osl.pexip.net/)  [**https://mgr.vc5-osl.pexip.net/**](https://mgr.vc5-osl.pexip.net/)  10.247.180.10 mgr.vc1-osl.pexip.net  *32*10.247.180.20 mgr.vc2-osl.pexip.net  *33*10.247.180.30 mgr.vc3-osl.pexip.net  *34*10.247.180.40 mgr.vc4-osl.pexip.net  *35*10.247.180.50 mgr.vc5-osl.pexip.net  **Session B Lab Environment**  Main VMRs  and [tech.training.b@pexipdemo.com](mailto:tech.training.b@pexipdemo.com) and <https://pexipdemo.com/webapp/?conference=tech.training.b>  Trainer Built deployment[**https://mgr.vc20-osl.pexip.net/**](https://mgr.vc20-osl.pexip.net/)  **Trainer D**emo deployment <https://mgr.vc12-osl.pexip.net/> **10.247.180.120**  [**https://mgr.vc6-osl.pexip.net/**](https://mgr.vc6-osl.pexip.net/)  [**https://mgr.vc7-osl.pexip.net/**](https://mgr.vc7-osl.pexip.net/)  [**https://mgr.vc8-osl.pexip.net/**](https://mgr.vc8-osl.pexip.net/)  [**https://mgr.vc9-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](mailto:tech.training.a.vc1@pexipdemo.com)  [tech.training.a.vc2@pexipdemo.com](mailto:tech.training.a.vc1@pexipdemo.com)  [tech.training.a.vc3@pexipdemo.com](mailto:tech.training.a.vc3@pexipdemo.com)  [tech.training.a.vc4@pexipdemo.com](mailto:tech.training.a.vc4@pexipdemo.com)  [tech.training.a.vc5@pexipdemo.com](mailto:tech.training.a.vc5@pexipdemo.com)  [tech.training.b.vc6@pexipdemo.com](mailto:tech.training.b.vc6@pexipdemo.com)  [tech.training.b.vc7@pexipdemo.com](mailto:tech.training.b.vc7@pexipdemo.com)  [tech.training.b.vc8@pexipdemo.com](mailto:tech.training.b.vc8@pexipdemo.com)  [tech.training.b.vc9@pexipdemo.com](mailto:tech.training.b.vc9@pexipdemo.com)  **Group 1 (VC1):**   * **Web -**[**https://pexipdemo.com/webapp/conference/tech.training.vc1**](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**](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**](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**](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**](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**](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**](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**](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**](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 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)** | **LO1 LO2** | **Class Q&A / Observation.**  **Group tasks screenshots doc**  **Kahoot**  **LMS–short assessment exercise** | [**PPT / Trainer lab 2 PDF**](https://www.pexipacademy.com/mod/folder/view.php?id=1183)**, 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**](http://us-pexep.pex.me)  **Europe:** [**http://no-pexep.pex.me**](http://no-pexep.pex.me)  **Australia:** [**http://au-pexep.pex.me**](http://au-pexep.pex.me) |
| Day 2 / session 3  3 hrs | **Lab 3** **Media traversal and more integrations – 2.5 hours** | **Section 1** Lecture & demo Google Meet Integration (15 mins)   * Set tasks Google Meet Integration, test and evidence. (25 mins)   **Section 2** Lecture & demo Microsoft Teams Integration (20 mins)   * Set tasks Microsoft Teams Integration, test and evidence. (35 mins) * Break 10 mins   **Section 3** Set the challenge – configure IVR and Audio / PSTN Connectivity, test and evidence. (25 mins)  **Review and Q&AS (15 mins) Lunch** | **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**](https://www.pexipacademy.com/mod/folder/view.php?id=1183)**, 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](https://www.twilio.com/console/phone-numbers/incoming/PNec5ce6b2d02c8e48274543f9fea7f735) | Pexip Training 20 | | [+49 211 86943001](https://www.twilio.com/console/phone-numbers/incoming/PNaba604709a4803a563251d6374ab078c) | Pexip Training 20 | | [+44 1274 003812](https://www.twilio.com/console/phone-numbers/incoming/PN14eed19e55afa10c8804d787ee60c747) | [Pexip Training 20](https://www.twilio.com/console/sip-trunking/trunks/TKec882d79a25dd29b819701fe10d5e1e3) | | [+46 10 551 59 63](https://www.twilio.com/console/phone-numbers/incoming/PN6bc9bf66f36cf4efb29b6066b6b5e12f)(national) | Pexip Training 20 |   **PSTN numbers for group**   |  |  | | --- | --- | | **CTE L2 Lab PSTN Telephone number** | **CTE L2 Lab workgroup** | | [+33 1 76 27 72 39](https://www.twilio.com/console/phone-numbers/incoming/PN6cb223499adcd529ad8799896d9c8ff0) | Pexip Training 1 | | [+44 1274 003753](https://www.twilio.com/console/phone-numbers/incoming/PNc236c02d811ef198508d7d86c13b996b) | Pexip Training 1 | | +1 [(571) 520-3526](https://www.twilio.com/console/phone-numbers/incoming/PN482a911e6c4255ccbe49f67d46e458d4) | Pexip Training 1 | | [+49 211 86943519](https://www.twilio.com/console/phone-numbers/incoming/PNc7987d44854b9c9214cf63610101b431) | Pexip Training 1 | |  |  | | [+49 211 86943319](https://www.twilio.com/console/phone-numbers/incoming/PNb981c7a7e4bab79cf08d616f8c6090c7) | [Pexip Training 2](https://www.twilio.com/console/sip-trunking/trunks/TK2e27132cb9920c7d5e6dc95ca93bbad8) | | +1 [(571) 520-3885](https://www.twilio.com/console/phone-numbers/incoming/PN7f67197962f78104275459e79cf941d4) | Pexip Training 2 | | [+44 1483 694624](https://www.twilio.com/console/phone-numbers/incoming/PNaff4ca2f47119868358f028104b74218) | [Pexip Training 2](https://www.twilio.com/console/sip-trunking/trunks/TK2e27132cb9920c7d5e6dc95ca93bbad8) | | [+33 1 76 27 72 38](https://www.twilio.com/console/phone-numbers/incoming/PN57cd3b23a7c51b6275a625b22f87bc9d) | Pexip Training 2 | |  |  | | [+49 211 86943347](https://www.twilio.com/console/phone-numbers/incoming/PN7c87665d7c99ff73eb0b44338c668bb5) | [Pexip Training 3](https://www.twilio.com/console/sip-trunking/trunks/TK6f6ace133699ef9521ff83392331b09e) | | [+33 1 76 27 72 32](https://www.twilio.com/console/phone-numbers/incoming/PNe584b2d0e96843b79cf7c09fc9e25ec5) | Pexip Training 3 | | [+44 1902 943578](https://www.twilio.com/console/phone-numbers/incoming/PNf8f392afa70d79444ded89b53732bc0c) | [Pexip Training 3](https://www.twilio.com/console/sip-trunking/trunks/TK6f6ace133699ef9521ff83392331b09e) | | [+31 97010254598](https://www.twilio.com/console/phone-numbers/incoming/PNd8e6d845bdab03efaff289fabfd1f026) | Pexip Training 3 | | +1 [(571) 520-3907](https://www.twilio.com/console/phone-numbers/incoming/PN87be966c9be2ba3322c796fca39db72e) | [Pexip Training 3](https://www.twilio.com/console/sip-trunking/trunks/TK6f6ace133699ef9521ff83392331b09e) | |  |  | | [+49 211 86943512](https://www.twilio.com/console/phone-numbers/incoming/PN5695396d7db7ae63a28ab9e64bf7a0a9) | [Pexip Training 4](https://www.twilio.com/console/sip-trunking/trunks/TKc543cdfb85649dbfcb1c899be058279a) | | [+33 1 76 27 72 35](https://www.twilio.com/console/phone-numbers/incoming/PNf506f523de09095bbbc0143320d14d90) | Pexip Training 4 | | [+49 211 86943506](https://www.twilio.com/console/phone-numbers/incoming/PN16ee015d24aa2d57574c6691496305e0) | Pexip Training 4 | | [+44 1548 802259](https://www.twilio.com/console/phone-numbers/incoming/PN7f674a6027a72d396b3e250c107de0da) | Pexip Training 4 | |  |  | | +1 [(571) 520-3947](https://www.twilio.com/console/phone-numbers/incoming/PN162ddfe79ce0a2761339944262b6adca) | Pexip Training 5 | | [+49 211 86943338](https://www.twilio.com/console/phone-numbers/incoming/PNc3edc838f6bc8fa4e476c82004a81484) | [Pexip Training 5](https://www.twilio.com/console/sip-trunking/trunks/TKce0a11b2978b8d6f9c877b4d0b53459c) | |  |  | | [+44 1329 756785](https://www.twilio.com/console/phone-numbers/incoming/PN616b864fc963bb2da93ec2d54195b983) | [Pexip Training 6](https://www.twilio.com/console/sip-trunking/trunks/TK577d2f1c82a79fd32be9a0d997fc2ad7) | | [+44 1274 003384](https://www.twilio.com/console/phone-numbers/incoming/PN5a1a85c7ab6072b56d0e0280248630b6) | [Pexip Training 7](https://www.twilio.com/console/sip-trunking/trunks/TKd335b9aaa2a2acc36a8ada25e9386a9d) | |  |  | | +1 [(202) 519-8563](https://www.twilio.com/console/phone-numbers/incoming/PN1a60f15a50e6f44d9f545d03b71e2a59) | Pexip Training 8 | | +1 [(202) 519-9988](https://www.twilio.com/console/phone-numbers/incoming/PNd61abf784517fc88cd02cf63f54d0493) | [Pexip Training 8](https://www.twilio.com/console/sip-trunking/trunks/TK1077189dfb1922e0ac3069dc16330fce) | | [+44 1749 608412](https://www.twilio.com/console/phone-numbers/incoming/PN7929a064842fa3cb263999ea0a031f6d) | [Pexip Training 8](https://www.twilio.com/console/sip-trunking/trunks/TK1077189dfb1922e0ac3069dc16330fce) | |  |  | | +1 [(202) 519-4932](https://www.twilio.com/console/phone-numbers/incoming/PNb165d4735017be4321b9366d2d3e78cb) | Pexip Training 9 | | [+44 1654 557049](https://www.twilio.com/console/phone-numbers/incoming/PN5480ecb5724dd3cf50e7fb206a70be0f) | Pexip Training 9 | |  |  | | +1 [(202) 519-5572](https://www.twilio.com/console/phone-numbers/incoming/PNdd718ce81fc694e7815f7ad26a545e98) | [Pexip Training 10](https://www.twilio.com/console/sip-trunking/trunks/TK5b0d0df182145bbe64f9f7d13a5d07e9) | | +1 [(571) 520-3927](https://www.twilio.com/console/phone-numbers/incoming/PN48de84f9d70c117e32bf7ba459925759) | [Pexip Training 11](https://www.twilio.com/console/sip-trunking/trunks/TKc0bcef10d319d6d647aa88c6c9aecbb7) | |
| 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 Activate Pexip Smart Scale.(10 mins)   * Set task Configure and Activate Pexip Smart Scale, test and evidence. (20 mins)   **Section 3** 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)   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.. | **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**](https://www.pexipacademy.com/mod/folder/view.php?id=1183)**, Learner lab guide, Learner lab 4 / lab 4 worksheet template**  **PexClinic – optional pre req to watch teams connector vid.** |
| **Summary of group / individual progress made.**  **Trainer reflection including any participant feedback when collected** | |  | | | |