

CPMT 1076 Course Syllabus

Name of Course: LPIC-1 and Linux+ Certification Prep - Course 2

Instructor: David Easterly, RHCSA, RHCE, LFCS, LFCE, Linux+, CTT+

Virtual Classroom Information: This class will meet online Mondays and Wednesdays from 6:00 PM to 10:00 PM CT for lecture, demonstration, discussion, and hands-on Linux labs all designed to prepare you to pass the LPIC-1 102-400 certification exam from the Linux Professional Institute. This class also covers the Linux+ LX0-104 exam from CompTIA. Online class sessions will use Google Hangouts and Google Meet to facilitate video calling and screen sharing.

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I am also available to assist learners outside class by appointment on Tuesdays from 6:00 PM to 8:00 PM via Google Hangouts.

Course Description: This is part 2 of a fast paced course that will prepare novice Linux users to pass the LPIC-1 certification exams from Linux Professional Institute or Linux+ certification exams from CompTIA. Through lecture, demonstration, and hands on practice you will learn essential Linux system administration skills to advance your IT career and prove your Linux knowledge with a technical certification recognized throughout the industry. The course is taught by an instructor with more than 20 years of Linux experience.

The required text is "CompTIA Linux+ / LPIC-1 All-in-One Exam Guide Second Edition" by Robb Tracy (ISBN-13: 9780071841719 or ISBN-10: 0071841687).

See <https://tinyurl.com/lpic-1-overview> and <https://tinyurl.com/comptia-linux-plus> for details about the certification exams.

Course Learning Objectives: This course will give students the knowledge, information, and strategy to prepare for the LPIC-1 or Linux+ certification exams. Topics include graphical and command line user interfaces; network configuration and troubleshooting; accessibility and localization; security basics like firewalls and encryption; working with log files; SQL databases; email services and applications; time and print services; and automating system administration tasks.

A complete list of objectives for the LPIC-1 102-400 and Linux+ LX0-104 exams can be found at <http://www.lpi.org/our-certifications/exam-102-objectives>.

Grading and attendance: To earn continuing education credits and a course completion certificate learners must:

- 1) Actively engage in class participation via Google Hangout meetings and labs
- 2) Complete Google Classroom assignments
- 3) Miss no more than 2 online class sessions

Prerequisites: Basic knowledge of computers and at least 3 months of hobbyist experience with Linux is required. Completion of CPMT-1075, ITSC-1091 or similar is recommended but not required.

Virtual Classroom Requirements: Access to Google Classroom, Google Drive, Google Docs, and Google Meet sessions will only be available using an @g.austincc.edu or @austincc.edu login. Learners must provide the following resources:

- 1) A PC or Mac desktop, laptop, or all-in-one with the Google Chrome browser that meets or exceeds the minimum hardware requirements to run VirtualBox. VirtualBox system requirements can be found at https://www.virtualbox.org/wiki/End-user_documentation.
- 2) A reliable high speed Internet connection capable of downloading 2+ GB lab virtual machine images and streaming HD video.
- 3) A good quality USB or Bluetooth headset with a microphone.
- 4) A quiet place to participate in class.

An optional second monitor/display is recommended if using a small laptop screen. An optional webcam is also recommended to participate in class discussion, partner labs, or breakout groups.

Required textbook: CompTIA Linux+ / LPIC-1 Certification All-in-One Exam Guide, 2nd edition (McGraw Hill, by Robb Tracy)

Hardback: 865 pages

Publisher: McGraw Hill Education; 2nd edition (June, 2015)

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