



## **FFmpeg - A Dynamic Forensic Video Workflow**

**Who Is It For:** Graduates of LEVA Level 1 course.

**Course Overview:** The powerful, open-source multimedia framework of FFmpeg is utilized by a growing number of media applications and surveillance video solutions. This course gives Analysts and Technicians the knowledge and tools to use FFmpeg in a dynamic and expedited workflow, supported by industry standard validation methodologies. Developed specifically for using FFmpeg within a legal environment, the course focuses on hands-on learning, and directed study. Upon completion, all students will receive specialized software to support Phase II learning, syntax development and to expedite their forensic workflow.

### **Objectives:**

- 1) Understand media frameworks and their individual benefits
- 2) Identify Stream, Format and Container characteristics
- 3) Use the Command Line to complete functions
- 4) Obtain FFmpeg builds for the Windows OS
- 5) Understand the FFmpeg online community, forums, help and Wiki
- 6) Identify multimedia within raw data
- 7) Use FFprobe to analyze multimedia and produce analytical documentation
- 8) Use FFplay to play and review multimedia
- 9) Plan, design, and execute a series of FFmpeg operations
- 10) Use FFmpeg to demux, rewrap, transcode and mux multimedia
- 11) Understand the FFmpeg syntax language
- 12) Apply filters and filter chains to multimedia
- 13) Interpret Video using FFmpeg output
- 14) Validate an FFmpeg output using other Software packages.
- 15) Create simple batch scripts for automation
- 16) Gain an awareness of other Command Line tools and their benefits
- 17) Use -iNPUT software, supporting FFmpeg in a Legal environment to save and share workflows.

Student knowledge retention and hands-on competence will be tested through written, oral and practical examinations. Students will leave this course with a defined skillset and newfound confidence when handling digital multimedia evidence.

**Duration:** 5 days

**Minimum and Maximum Number Students:** 20/40

For further information about LEVA, go to [www.leva.org](http://www.leva.org).

For questions regarding training, contact Mr. Jan Garvin, LEVA Executive Director, [training@leva.org](mailto:training@leva.org).