VETV

Outline & Schedule for Switcher Course

RED – Optional Holidays

Week 1 - Day 1 - ALL – Monday April 15, 2019

Intro to Denali Gold
- Engineering
  - Router
  - Patch Panels
- Record/PB Area
  - EVS Recorders
  - GV Server
  - BMD SSD Recorders

Week 1 - Day 2 - ALL – Tuesday April 16, 2019

Intro to Denali Gold
- Camera Control
- Expression
- DEKO CG
- Adobe Premiere Pro Editor

Week 1 - Day 3 - ALL – Wednesday April 17, 2019

Intro to Denali Gold
- Virtual Camera Control
- Audio Mixer
- Tri-pods / Heads / Audio-Video External Connections

Week 1 - Day 4 – ALL - Thurs April 18, 2019

Written test Week 1 - Days 1-3

Week 2 - Day 1 - Monday April 22, 2019

- **What Is a Switcher?**
  - A creative tool that allows real-time editing of Video Sources
  - A device that allows the addition of real-time Video Effects and Transitions
  - A device that routes and layers Video Sources to one or more discreet outputs
    - Program Out
    - Preview Out
    - M/E Outputs
      - M/E PGM
      - M/E PVW
    - AUX Outputs

Week 2 - Day 2 - Tuesday April 23, 2019

- **What are the Functions of a Switcher?**
  - All Switchers perform 3 basic functions
    - Cuts
    - Dissolves
    - Keys
      - What is a KEY?

Week 2 - Day 3 - Wednesday April 24, 2019

- Built-In Still Stores
- Built-In DVE's
- Color Correction

Week 2 - Day 4 - Thursday April 25, 2019 – Nat'l Sons & Daughters to work Day

Written test Week 2 - Days 1-3

Week 3 - Day 1 - Monday April 29, 2019

- External Device Control
  - Editor Control
  - VDRCS / VDCP / AMP / BVW-75 / Ethernet / RS-422 / PBus
  - GPI
    - GPI In
    - GPI Out

Week 3 - Day 2 - Tuesday April 30, 2019

- **Switcher Components**
  - Main Frame
    - Inputs
    - Outputs
    - Ethernet / RS-422 Ports
    - Format
      - NTSC / PAL
        - SD / HD

Week 3 - Day 3 - Wednesday May 1, 2019

- 720p
- 1080i
- 1080p
- 4K
- 8K
- Working with multiple formats in the same switcher
  - Format Converters

Week 3 - Day 4 - Thursday May 2, 2019

Written test Week 3 - Days 1-3

Week 4 - Day 1 - Monday May 6, 2019 – Ramadan

- Panel
  - M/E Stripes
    - Crosspoint Buttons
      - Backgrounds
      - Keys
      - Utility Buses

Week 4 - Day 2 - Tuesday May 7, 2019

  - Transition Control
  - Keyer Control
  - M/E Data & Information Displays
- AUX Panel
  - Aux Bus Selection
  - Source Selection

Week 4 - Day 3 - Wednesday May 8, 2019

  - Keyer Control
  - Matte Control
  - DVE Control
  - Machine Control
  - Still Store Control

Week 4 - Day 4 - Thursday May 9, 2019

Written test Week 4 - Days 1-3

Week 5 - Day 1 - Monday May 13, 2019

  - E-MEM / Timeline / Editing Control
  - Macro Record / Editing / Playback
  - Internet Streaming
  - Embedded Audio

Week 5 - Day 2 - Tuesday May 14, 2019

- Menu
  - Menu Layout & Hierarchy
  - Engineering Menus
  - User Menus
- DCU (Some Models)

Week 5 - Day 3 - Wednesday May 15, 2019

- **Switcher Inputs**
- Connectors on Main Frame
- Types of Inputs
  - Video
  - Key
- Mapping Source Inputs to Buttons
- Source Patching

- Built-In Sources

Week 5 - Day 4 - Thursday May 16, 2019

Written test Week 5 - Days 1-3
Week 6 - Day 1 - Monday May 20, 2019

- **Switcher Outputs**
  - Connectors on Main Frame
  - What is a PGM Output?
  - What is a PVW Output?
  - What is an M/E Output?
    - Each M/E has 6 Outputs
  - What is an AUX Output?

Week 6 - Day 2 - Tuesday May 21, 2019

- **Controlling and Manipulating Sources**
  - Doing CUTS between Sources
  - Doing a DISSOLVE Between Sources
  - Doing a WIPE Between Sources
    - Selecting a Pattern
    - NORM / REVERSE / N/R Directions
    - Modifying the Wipe Pattern
      - Pattern Multipliers
      - Aspect Control
      - Positioning Control
    - Adding Softness to a wipe edge

Week 6 - Day 3 - Wednesday May 22, 2019

  - Adding a Matte color(s) to a wipe edge
  - Adding Video to a wipe edge
  - Pattern Limiting
  - Doing a USER TRANSITION Between Sources
  - Doing a PRESET BLACK TRANSITION Between Sources
  - Doing a TRANSITION PREVIEW

Week 6 - Day 4 - Thursday May 23, 2019

Written test Week 6 - Days 1-3

Week 7 - Day 1 - Monday May 27, 2019 – Memorial Day Fundraiser

- **Building Effects**
  - Adding KEYS
    - Self Key vs. Auto Select Key
    - Luminance Key vs. Linear Key
    - Key Transparency
    - Bringing Keys On & Off
    - Matte-Filling Keys
    - Adding Borderlines, Edges & Shadows

Week 7 - Day 2 - Tuesday May 28, 2019

- Masking Keys
- Creating a Preset Pattern Key
- Routing a Keyer through a DVE / Resizer
- Chroma Keys
- Introduction to E-MEMs
- Introduction to Timelines

Week 7 - Day 3 - Wednesday May 29, 2019

- **Re-Entry and Layering**
  - Using another M/E as a background source
  - Using another M/E as a key source
    - LAYERED MODE

Week 7 - Day 4 - Thursday May 30, 2019

Written test Week 7 - Days 1-3

Week 8 - Day 1 - Monday June 3, 2019
- **Controlling Stills and Animations**
  - Mapping Still Store Outputs
  - Setting up Still Store Inputs
  - Recording a Still
  - Recalling a Still
  - Manipulating a Still

Week 8 - Day 2 - Tuesday June 4, 2019

- Recording an Animation
- Replaying an Animation
- Controlling the Still Store with E-MEMs / Timelines

Week 8 - Day 3 - Wednesday June 5, 2019

- **Color Correction**
  - RGB vs.YUV Modes
  - Where to find Color Correction Handles
  - Controlling Color Correction using E-MEMs / Timelines

Week 8 - Day 4 - Thursday June 6, 2019

Written test Week 8 - Days 1-3

Week 9 - Day 1 - Monday June 10, 2019

- **Manipulating Video using Digital Video Effects Devices**
  - Effects Send Theory - Number of Available Channels
  - Using a DVE Upstream vs. Downstream of a Source
  - 2D vs. 3D
  - DVE Terminology & Functionality
    - Sizing
    - Positioning

- Aspect Control
- Using 2D Space

Week 9 - Day 2 - Tuesday June 11, 2019

- Using 3D Space
  - X, Y & Z
- Using TARGET Space
- Using SOURCE Space
- Using Rotations & Spins
- Non-Linear Effects, Warps, Mattes, Shadows, Lighting
- Using Multiple Channels
- GLOBAL Control

Week 9 - Day 3 - Wednesday June 12, 2019

- **Controlling External Devices**
- VTRs / Servers
- Cameras
- Plus Devices
- GPI Control

Week 9 - Day 4 - Thursday June 13, 2019

Written test Week 9 - Days 1-3

Week 10 - Day 1- Monday June 17, 2019

- **Advanced Timeline Features**
- Accessing E-Mem Registers (Banks / Levels)
- All-Inclusive Timelines on an M/E
- Partial Timelines on an M/E
- Editing Timelines
- Local E-Mem / Timelines vs. Master E-Mem / Timelines

Week 10 - Day 2 - Tuesday June 18, 2019

- **Macros**
- What IS a Macro?
  - What gets recorded into a Macro
- Macro Registers (Banks)
- Recording a Macro
  - Adding Pauses
- Editing a Macro
- Replaying a Macro

Week 10 - Day 3 - Wednesday June 19, 2019

- Chaining Macros
- Playing a Macro from the Timeline
- Attaching a Macro to a Panel Button
  - Pre-Attach
  - Post-Attach
  - Replace-Attach

- Using the Menu to View Attachments
- Removing an Attachment

Week 10 - Day 4 - Thursday June 20, 2019

Written test Week 10 - Days 1-3

Week 11 - Day 1 - Monday June 24, 2019

- **M/E Modes**
  - Partitioning the Switcher between multiple users
  - Sharing the Switcher between multiple panels
  - Sharing Switcher Resources between multiple users
  - The 6 Outputs of each M/E

Week 11 - Day 2 - Tuesday June 25, 2019

- NORMAL MODE
- PROGRAMMABLE KEYER MODE
- LAYERED MODE
- SPLIT MODE

Week 11 - Day 3 - Wednesday June 26, 2019

Week 11 - Day 4 - Thursday June 27, 2019

Week 12 - Day 1 - Monday July 1, 2019

Week 12 - Day 2 - Tuesday July 2, 2019

Week 12 - Day 3 - Wednesday July 3, 2019

- Final Exams

Week 12 - Day 4 - Thursday July 4, 2019 *– 4th of July*

Week 12 - Day 5 - Friday July 5, 2019

- ***GRADUATION!!!***