



Republic of Rwanda
Ministry of Education



RTB | RWANDA
TVET BOARD

MMPVE301 -

VIDEO EFFECTS

MMPVE301

APPLY VIDEO EFFECTS

Competence

RQF Level: 3

Learning Hours



80

Credits: 80

Sector: ICT AND Multimedia

Trade: Multimedia Production

Module Type: Specific

Curriculum: MMPVE301- TVET Level 3 in Multimedia

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Issue

Date: May 2022

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|--------------------------|---|------------|-----------------------------|-----------------------------|------------|-------------------|
| Purpose statement | <p>This module provides knowledge and skills on Color correction workflows, contrast adjustments, color adjustment, color matching, color balancing, hue curves and saturation, Skin tone, Chroma keying, Rotoscoping and Motion tracking.</p> <p>At the end of this module the trainees will be able to apply color correction, perform color grading and apply video effects (VFX).</p> | | | | | |
| Delivery modality | Training delivery | | 100% | Assessment | | Total 100% |
| | Theoretical content | | 30% | Formative assessment | | 30% |
| | Practical work: | | 70% | | | 50% |
| | <ul style="list-style-type: none"> ● Group project and presentation | 20% | | | | |
| | <ul style="list-style-type: none"> ● Individual project /Work | 50% | Summative Assessment | | 50% | |

Elements of Competency and Performance Criteria

| Elements of competency | Performance criteria |
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| 1. Apply color correction | 1.1. Color correction workflows have been properly done based on the nature of project |
| | 1.2. Color correction environment have been properly prepared based on project requirement |
| | 1.3. Primary contrast adjustments have been properly set properly based on the video |
| | 1.4. Primary color adjustment has been properly set based on the video |
| | 1.5. Shot color matching have been properly done based on project requirements |
| | 1.6. Scene color balancing has been properly done based on project requirements |

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| 2. Perform color grading | 2.1. HSL Qualification and hue curves have been properly done depending on desired product |
| | 2.2. Color grades have been properly done based on the requirements |
| | 2.3. Skin tone have been properly added based on desired output video |
| | 2.4. Skies, and foliage have been properly added based on desired output video |
| 3. Apply VFX | 3.1. Layer masking have been properly performed based on selected scene |
| | 3.2. Chroma keying have been properly applied according to selected scene |

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| Learning outcomes | <p>At the end of the module the learner will be able to:</p> <ol style="list-style-type: none"> 1. Apply color correction 2. Apply color grading 3. Perform VFX |
| Learning outcome 1: Apply color correction | Learning hours: 25 |
| Indicative content | |
| <ul style="list-style-type: none"> ● Color correction workflow <ul style="list-style-type: none"> ✓ Master what you see ✓ Make the color consistent ✓ Setting up the color theme ✓ Set up color correction environment ● Setting up primary contrast <ul style="list-style-type: none"> ✓ Contrast of Hue ✓ Cold-Warm Contrast ✓ Complementary Contrast ✓ Simultaneous Contrast ✓ Contrast of Saturation ✓ Contrast of Extension ● Shot color matching <ul style="list-style-type: none"> ✓ Color theory ✓ Color palettes ✓ Color wheel | |

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| <ul style="list-style-type: none"> ✓ Color combination ● Color balance <ul style="list-style-type: none"> ✓ Gray balance ✓ Neutral balance ✓ White balance | |
| Resources required for the learning outcome | |
| Equipment | Computer, Headphones, Speakers, Video Cables, Video Monitors Video Tapes, Flash, Memory Cards or DVD's, External hard disks, DVD player |
| Materials | Paper, Pen, Internet, Batteries, CDs, DVDs, SD Card |
| Tools | Video editing software: Adobe Premiere Pro CC, Final Cut Pro, Lightworks, Sony Vegas Pro, Adobe After Effects, DaVinci Resolve Other tools: Red Giant, Video Copilot. |
| Facilitation techniques & Learning activities | <ul style="list-style-type: none"> ● Demonstration ● Practical exercise ● Trainer guided practice ● Brainstorming ● Video tutorials |
| Formative assessment methods | <ul style="list-style-type: none"> ● Written assessment ● Oral presentation ● Performance assessment ● Product based assessment |

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| Learning outcome 2: Apply color grading | Learning hours: 25 |
| Indicative content | |
| <ul style="list-style-type: none"> ● HSL qualification and hue curves <ul style="list-style-type: none"> ✓ Hue ✓ Saturation ✓ Brightness ● Performing skin tone color grading | |

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| <ul style="list-style-type: none"> ✓ Fair skin ✓ Dark skin ✓ Deep skin ✓ Olive skin ● Skies and foliage <ul style="list-style-type: none"> ✓ Autumn sky background ✓ Winter sky background |
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| Resources required for the indicative content |
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| Equipment | Computer, Headphones, Speakers, Video Cables, Video Monitors Video Tapes, Flash, Memory Cards or DVD's, external hard disks, DVD player |
| Materials | Paper, Pen, Internet, CDs, DVDs, SD Card |
| Tools | Video editing software Final Cut Pro, Adobe After Effects, DaVinci Resolve, Filmora, EDIUS, Autodesk Smoke, Avid Media Composer, Adobe Premiere Pro CC, Final Cut Pro |
| Facilitation techniques & Learning activities | <ul style="list-style-type: none"> ● Demonstration ● Practical exercise ● Trainer guided practice ● Brainstorming ● Video tutorials |
| Formative assessment methods | <ul style="list-style-type: none"> ● Written assessment ● Oral presentation ● Performance assessment ● Product based assessment |

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| Learning outcome 3: Perform VFX | Learning hours: 30 |
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| Indicative content |
| <ul style="list-style-type: none"> ● Layer Masking <ul style="list-style-type: none"> ✓ Matte ✓ Alpha |

✓ Mask

● **Chroma keying**

- ✓ Applying green screen color key
- ✓ Application of blue screen color key
- ✓ Linear color key

Resources required for the indicative content

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| Equipment | Computer, Headphones, Speakers, Video Cables, Video Monitors Video Tapes, Flash, Memory Cards or DVD's, external hard disks, DVD player |
| Materials | Paper, Pen, Internet, CDs, DVDs, SD Card, |
| Tools | Video editing software Filmora, Adobe After Effects(Red Giant, Video copilot), DaVinci Resolve, Avid Media Composer, adobe premiere pro |
| Facilitation techniques & Learning activities | <ul style="list-style-type: none">● Demonstration● Practical exercise● Trainer guided practice● Brainstorming● Video tutorials |
| Formative assessment methods | <ul style="list-style-type: none">● Written assessment● Oral presentation● Performance assessment● Product based assessment |

Integrated/Summative assessment

Integrated situation

Kigali Film and Television School (KFTV) is a leading film school and one of the big production studios in Kigali/Rwanda. It is known in different film production projects such as Gitera, Above the brave and many more. Unfortunately, all those produced films are not well recognized due to the low quality of post-production. Next year Kigali Film and Television School is planning to screen a film that will be called “No time to lose” at movie theater Canal Olympia Rebero. Shooting and editing are already done. Kigali Film and Television School (KFTV) is required to perform color correction, color grading and apply video effects on trailers of film before screening it to the movie theater. As visual effects editor you are requested to apply all required video effects on their trailer. After that you must provide a Full HD, MP4 video format to be broadcasted on RBA (Rwanda Broadcasting Agency) and YouTube channels. This work must be done in 4 hours.

Resources

| Tools | <p>Video editing software:</p> <p>Filmora, EDIUS, Autodesk Smoke, Avid Media Composer, Adobe Premier Pro CC, Final Cut Pro, HitFilm Pro, Lightworks, Magix Video Pro, VSDC, iMovie, EaseUS Video Editor, Shotcut, Magisto, Adobe Premiere Clip, Final Cut Pro, PowerDirector, Lightworks, Sony Vegas Pro, Adobe After Effects DaVinci Resolve, Avid Media Composer,</p> <p>Other tools:</p> <p>Red Giant, Video Copilot</p> <p>B-Rolls and outsourcing archives:</p> <p>Online video, audio, graphics and image libraries, Shutterstock, Element envato, Panopto, e-Video, Adobe stock, youtube free library, vimeo</p> | | | | |
|---|--|--------------------------------------|-------------|----|------------------|
| Equipment | <p>Computer, Headphones, Speakers, Video Cables, Video Monitors</p> <p>Video Tapes, Flash, Memory Cards or DVD's, external hard disks, DVD player</p> | | | | |
| Materials/ Consumables | <p>Paper, Pen, Internet, CDs, DVDs, SD Card</p> | | | | |
| Assessable outcomes | Assessment criteria (Based on performance criteria) | Indicator | Observation | | Marks allocation |
| | | | Yes | No | |
| Learning outcome 1: Apply color correction | 1.1. Apply color correction | Color correction workflow is applied | | | 3 |
| | | Color correction environment is set | | | 3 |

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| (30%) | | Primary contrast is adjusted | | | 6 |
| | | Primary color adjustment is applied | | | 6 |
| | | Shot colors are matched | | | 6 |
| | | Scene colors are balanced | | | 6 |
| Learning outcome 2: Apply color grading (30%) | 2.1. Apply color grading | HSL Qualification and hue curves is performed | | | 6 |
| | | Color grades are applied | | | 8 |
| | | Skin tone is applied | | | 8 |
| | | Skies, and foliage are applied | | | 8 |
| Learning outcome 3: Perform video effects (40%) | 3.1. Perform video effects | Chroma keying is performed | | | 15 |
| | | Rotoscoping is performed | | | 15 |
| | | Motion tracking effects is performed | | | 10 |
| Total marks | | 100 | | | |
| Percentage Weightage | | 100% | | | |
| Minimum Passing line % (Aggregate): 70% | | | | | |

References:

- Education, M.-H., & McGrath, P. (2002). Editing Digital Video. McGraw-Hill Education TAB.
- Scoppettuolo, D., & Saccone, P. (2018). The Definitive Guide to DaVinci Resolve 15. Blackmagic Design