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| Title | **Analyse cost effective solution** | | |
| Level | **4** | **Credits** | **13** |

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| Purpose | These competency standards will ensure that the trainee will be competent to calculate the optimal solution based on client requirements and designers experience. |

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| Classification ISCED | 0611 Computer use |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| Competency Unit | Performance Criteria | Knowledge and Understanding |
| **C1**: Check the time duration of video sequence | **P1**: Add time in seconds to individual scenes of video sequence | **K1**: Learn the calculation of time based on narration and audio in the scenes as well visuals  **K2**: Understand the length in seconds of audio clip for each particular scene for dialogues use  **K3**: Understand the synchronization of music in scenes, and computing of time duration accordingly of scenes. |
| **C2**: Learn the output format of video file. | **P1**: Choose the output file format, container, codec for motion video | **K1**: Understand the anatomy of a video file  **K2**: Understand the characteristics of a video signal  **K3**: Study the file formats concepts  **K4**: Get knowledge of most common containers/ wrappers used (i.e. AVI, MPEG-4, MOV, OGG, etc)  **K5**: Understand the codecs available and compatibility  **K6**: Get Knowledge of common codecs ( MPEG, MPEG, etc) |

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|  |  | **K7**: Examine video sampling bit rates and quality  **K8**: Understand the process of transcoding part of a video sequence  **K9**: Understand the difference between compressed and uncompressed videos  **K10**: Get Knowledge of digital storage space or size of footage required  **K11**: Get Knowledge of recording device and its quality in use on final product |
| **C3**: Learn the Ratio between Quality and Sizes | **P1**: Set optimal compression ratio for video file  **P2**: Select output size of video file  **P3**: Set resolution of video  **P4**: Select optimal frame rate for playback  **P5:** Describe frames per seconds as fps and its effect with increasing and decreasing fps on video file- increasing frame rate makes the video smother | **K1**: Get Information of compression methods available for media types  **K2**: Get Knowledge of transmission and playback  **K3**: Get Information for Resolution of video as defined by number of pixels present in the image. |