BRIEF

You have been approached by ‘Omni Consumer Products’ with a view to produce a podcast.

You are encouraged to select a subject matter that promotes one of your interests, but must be related to technology.

The major condition is that you include a segment of no less than 5 seconds promoting the “low, low prices, of Omni Consumer Products – a family company”.

It is important that ‘Omni Consumer Products’ are presented in a positive light – as they will greenlight the final product. Their areas of business include;

Computers

Robotics

Cybernetics

Consumer products

Space exploration

Urban Pacification Tools

Military grade weaponry

Food products

Private government

You will need to include a minimum of three audio layers – and – submit the final mixed file –including compression – in a readily accessible lossless format.

Your podcast will need to be at least 30 seconds in length.

OUTCOME 1

Demonstrate knowledge of the properties of audio and audio effects.

Performance Criteria

(a) Describe the properties of audio in relation to digital storage.

(b) Describe the effects of sampling rate on digital audio and its quality.

(c) Describe different audio effects.

(d) Describe different amplitude effects.

♦ two properties of audio in relation to digital storage on a computer based system

♦ two sampling rates in relation to digital audio

♦ identification of the effect on the quality of recorded audio for two different types of compression techniques

♦ two audio file types including their characteristics and usage

♦ two component parts of a sound wave.

OUTCOME 2

Identify and plan the acquisition of digital audio for a specified brief.

Performance Criteria

(a) State the expected quantity, type and quality of digital audio from the brief.

(b) State the possible sources of digital audio and potential copyright issues.

(c) Identify the hardware requirements for acquisition of digital audio for the brief.

(d) Plan a schedule for digital audio acquisition to meet the requirements of the brief.

♦ An A/V script or storyboard relevant to the specified brief

♦ A detailed plan of activities (production schedule) for acquisition of digital audio media

♦ Risk assessments for planned acquisition activities

♦ A list of the hardware and software resources required

♦ A candidate activity log of activities undertaken including evidence of technical and operational problems encountered and resolved

♦ A list of all acquired digital audio content with storage locations and appropriate filenames

♦ A list of the copyright status of all elements of the audio and where required, records of copyright clearances

OUTCOME 3

Perform the acquisition of digital audio for a specified brief.

Performance Criteria

(a) Connect, set up and adjust recording and computer equipment.

(b) Safely complete the recording to the quality required.

(c) Convert audio files to the formats required by the brief.

(d) Store and label the completed recording in accordance with copyright legislation.

OUTCOME 4

Manipulate and store the acquired digital audio to the form required by the specified brief.

Performance Criteria

(a) Manipulate digital audio in accordance with the brief.

(b) Store and label the manipulated audio file in accord with the brief.

* these are to include reverb, chorus, flange and compression.
* fade-ins at the start of a track or fade-outs at the end.

OUTCOME 5

Evaluate finished product and own performance in meeting the requirements of a specified brief Performance Criteria

(a) Describe problems encountered and explain strategies employed to resolve problems.

(b) Describe audio source and quality chosen and explain choice with reference to the specified brief.

(c) Draw conclusions on the experience of meeting the specified brief.

* Candidates will produce a report of at least 150 words of the self evaluation of the audio production and their personal contribution to the final product.