

Specification of Competency Standards
for the Information & Communications Technology Industry
Unit of Competency

Functional Area - Operations Management

Title	Perform noise reduction of digital video sequence
Code	107974L3
Description	This unit of competency applies to all Digital Media Technology (DMT) practitioners in the digital video production work. Video image noise can be apparent during the video capturing stage and can cause issues for adding effects or viewing. With advanced functions provided by video capturing equipment, there is a choice at where noise removal (de-noise) can be performed but this UoC is mainly concerned with post production stage of noise removal.
Level	3
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Knowledge for performing noise reduction of digital video sequence</p> <ul style="list-style-type: none"> • Possess good literacy skills that can read and interpret work requirement • Possess good knowledge of digital video de-noise techniques • Possess good knowledge and able to operate different de-noise filters/plugin • Possess good knowledge of different effects of image noise • Possess basic knowledge of the organisation's sourcing policies <p>2. Perform noise reduction of digital video sequence:</p> <ul style="list-style-type: none"> • Comprehend work order to determine work requirements, including what noise correction is required and where in the video sequence appears • Load the video sequence into a video editor/viewer to inspect and verify location of noise. If necessary, mark the location for noise removal • Identify the noise type that appears on the video sequence. Noise type may be: <ul style="list-style-type: none"> ○ Fixed pattern noise ○ Random noise ○ Banding noise • Identify suitable noise reduction technology to use for enhancing the video sequence, such as: <ul style="list-style-type: none"> ○ Spatial noise identification and reduction ○ Temporal noise identification and reduction • Identify and seek the suitable software and filter/plugin for the appropriate noise removal without degrading the video image. For example: Neatvideo, Video Denoise, etc. • Adhere to guidelines of noise reduction filter/plugin on "dos and don'ts" to achieve best results, For example: <ul style="list-style-type: none"> ○ Perform brightness first ○ Never change image size or resolution before de-noised ○ Interlaced video should be de-interlaced before de-noised ○ Don't use more than one noise reduction filter/plugin ○ etc. • Initiate de-noising of video image with appropriate settings • Inspect result and perform sharpening procedures if the de-noising process creates too soft video images • Export the completed de-noised video sequence in the required format and package with original video sequence for work sign off <p>3. Exhibit professionalism</p>

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	<ul style="list-style-type: none">• Apply industry best practices and use current de-noise technologies to remove common noise imperfections from digital video images
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none">• Determine the requirements of the noise removal work• Identify and confirm the type of noise on the video sequence to select the correct software filter/plugin to be used for the de-noise process• De-noise the video sequence to an acceptable quality that can be signed off
Remark	