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

Functional Area - Operations Management

Title	Create rig for 3D character animation
Code	107959L3
Description	This unit of competency applies to all Digital Media Technology (DMT) practitioners in the 3D animation production work. Before any kind of advanced animation can happen, a rig must be built. A rig consists of bones and joints (skeleton) inside a character model which allows the animator to move the character model smoothly and precisely.
Level	3
Credit	3
Competency	 Performance Requirements Knowledge for creating rig for 3D character animation Possess literacy skills that can read and interpret relevant sources of information related to the character animation Possess good communication skills to collaborate with modellers and animators Possess good animation concepts and techniques Possess good rigging skills and good knowledge of different rigging techniques Possess good rigging skills and good knowledge of different rigging techniques Possess good rigging skills and good knowledge of different rigging techniques Possess good rigging skills and good knowledge of different rigging techniques Possess basic knowledge of body anatomy movement 2. Create rig for 3D character animation Comprehend the script/storyboard/character sheet/animation brief to understand character animation requirements Prepare for rigging: Select suitable modelling software Acquire the character model Load the previously prepared character model into the animation software and perform some basic checking and adjustments prior performing rigging, for example: Is the model in neutral pose? Is the model in cale with others characters in the scene? Is the model centred over the axes Create all character model's joints/bones and connect them together to form the rig structure (skeleton), such as: Neck and head Spine (backbone) Arms and legs etc. Create Inverse Kinematics (IK) handles for the joints/bones to allow independent control during animation Set up controls of the rig by parenting objects to joints/bones and add controls to limit/constraint IK handles actions or movements in relations to parented objects, such as the arm movement is controlled by elbow and hand. A "top control" may be created to allow animator
	 Apply industry best practices for rigging to deliver the necessary controls that allow the animator to easily and correctly perform the animation task

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Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: Fully comprehend the animation requirements of the character model, such as what type of controls and the constraints of the movements, etc. Create sufficient joints/bones and controls for the rig that enable the animator to have all the controls it needed to perform his/her animation Complete and deliver the character model in the format comply with industry standard and matches the requirement for next stage of production work
Remark	