



## QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR MEDIA AND ENTERTAINMENT INDUSTRY

## What are Occupational Standards(OS)?

OS describe what individuals need to do, know and understand in order to carry out a particular job role or function

OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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## Introduction

## **Qualifications Pack-Animator**

SECTOR: MEDIA AND ENTERTAINMENT

SUB-SECTOR: Animation, Gaming

**OCCUPATION:** Animator

**REFERENCE ID:** MES/ Q 0701

ALIGNED TO: NCO-2004/ 2452.70

Animator in the Media & Entertainment Industry is also known as Flash Animator/ 3D Animator/ Flash Shadow Artist

**Brief Job Description:** Individuals at this job need to refer to concept artwork prepared by animation artists to produce a sequence of 2D/3D images using animation software

**Personal Attributes:** This job requires the individual to know the fundamentals of life drawing including human anatomy, emotions, actions and expressions. The individual must know and keep updated on graphics and animation software and apply principles of design, animation and film-making to create animation sequences. The individual must be able to collaborate and work effectively as a member of a team to deliver work-products within requisite timelines.





Job Details

Qualifications Pack Code	MES/ Q 0701		
Job Role	Animator This job role is applicable in both national and international scenarios		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15

Job Role	Animator		
Role Description	Producing a sequence of 2D/3D images using animation software		
NSQF level	4		
Minimum Educational Qualifications	Class XII		
Maximum Educational Qualifications	Graduation in Fine Arts or equivalent		
<b>Training</b> (Suggested but not mandatory)	Study of fundamentals & principles of Animation Training on 2D/3D Software Tools Course in Fine Arts Animation foundation course covering body mechanics, advance acting skills etc.		
Experience	<ul> <li>0-2 years Trainee Animator/ Junior Animator</li> <li>1-3 years Animator</li> <li>4-6 years Lead Animator</li> </ul>		
Applicable National Occupational Standards (NOS)	Compulsory:         1.       MES / N 0701 (Understand Animation Requirements)         2.       MES / N 0702 (Conceptualise Creative Ideas for Production)         3.       MES / N 0703 (Plan Tools and Workflow)         4.       MES / N 0704 (Produce 2D Animation)         5.       MES / N 0705 (Produce 3D Animation)         6.       MES / N 0706 (Produce Stop Motion Animation)         7.       MES / N 0707 (Maintain workplace health and safety)		
Performance Criteria	As described in the relevant OS units		





Keywords /Terms	Description
Animatic	Animatic is a story-board for animation which includes an series of images edited together with dialogues and sound
Budget	Budget is an estimate of the total cost of production that may include a break-up of cost components
Compositing	Compositing is the process of combining layers of images/elements into a single frame
Composition	Composition is the positioning of the character with respect to the background and camera
Creative Brief	Creative brief is a document that captures the key questions that serve as a guide for the production including the vision, objective of the project, target audience, timelines, budgets, milestones, stakeholders etc.
Key Frame	Key Frames are the key poses, usually the start and end poses for a particular animation sequence
Modeling	Modeling is the process of creating three-dimensional models for animation using a specialised software application.
Rendering	Rendering is the process of converting three-dimensional models into two-dimensional images with 3D effects
Rigging	Rigging is the process of adding joints to a static three-dimensional model to aid movement during posing
Timelines	Timelines is a listing of dates by which the production milestones/stages need to be completed
Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.
Sub-functions	Sub-functions are sub-activities essential to fulfill the achieving the objectives of the function.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task
National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.





Qualifications Pack(QP)	Qualifications Pack comprises the set of OS, together with the
	educational, training and other criteria required to perform a job role. A
	Qualifications Pack is assigned a unique qualification pack code.
Unit Code	Unit Code is a unique identifier for an Occupational Standard, which is
	denoted by an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent
	should be able to do.
Description	Description gives a short summary of the unit content. This would be
	helpful to anyone searching on a database to verify that this is the
	appropriate OS they are looking for.
Scope	Scope is the set of statements specifying the range of variables that an
	individual may have to deal with in carrying out the function which have
	a critical impact on the quality of performance required.
Knowledge and	Knowledge and Understanding are statements which together specify the
Understanding	technical, generic, professional and organizational specific knowledge
	that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured
	and how it operates, including the extent of operative knowledge
	managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish
	specific designated responsibilities.
Core Skills/Generic	Core Skills or Generic Skills are a group of skills that are key to learning
Skills	and working in today's world. These skills are typically needed in any
	work environment. In the context of the OS, these include
	communication related skills that are applicable to most job roles.
Keywords /Terms	Description
NOS	National Occupational Standard(s)
QP	Qualifications Pack
NSQF	National Skill Qualifications Framework







**Understand Animation Requirements** 

# National Occupational Standard



## **Overview**

This unit is about understanding the project brief, product requirements and methodology/technique(s) to be used for production





### **Understand Animation Requirements**

Unit Code	MES/ N 0701
Unit Title (Task)	Understand Animation Requirements
Description	This OS unit is about understanding the project brief, product requirements and methodology/technique(s) to be used for production
Scope	<ul> <li>This unit/task covers the following:</li> <li>Understanding production requirements</li> <li>Understanding the type of end-product that needs to be produced</li> <li>Selecting the animation technique(s) to be used</li> </ul>
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Understanding production requirements	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Understand, clarify and agree on the project brief from the Director, Art Director and Supervisors. This could include the following: <ul> <li>Creative objectives, as appropriate to the role</li> <li>Concept/style of animation and the desired look</li> <li>Target audiences</li> <li>Project timelines and constraints</li> </ul> </li> </ul>
Understanding the type of end-product that needs to be produced	<ul> <li>PC2. Understand various parameters of the end-product that would influence production requirements (e.g. duration, style, number of characters, subject and storyline, culture and period the story is based in, effects required, format, aspect ratio, music etc.)</li> <li>PC3. Understand the treatment of the output that needs to be produced, the volume of the final output and key deliverables</li> <li>PC4. Understand the shot sequence (high-level) and continuity/consistency required</li> </ul>
Selecting the animation technique(s) to be used	<ul> <li>PC5. Select an appropriate animation technique based on the output required, which could include: <ul> <li>2D animation:</li> <li>Cell animation (e.g. early episodes of Tom and Jerry (series))</li> <li>Cut out animation (e.g. Charlie and Lola (series))</li> <li>Limited animation (e.g. South Park, Empire Square (series))</li> </ul> </li> <li>3D Animation: <ul> <li>Realistic 3D animation- motion capture + key frame animation (e.g. in films such as Beowulf, Avatar and Lord of the Rings' Gollum)</li> <li>Semi-realistic 3D animation (e.g. films like little Krishna and Brave)</li> <li>Toon 3D animation (e.g. films such as Kung-fu Panda)</li> <li>Simulation of traditional &amp; stop motion techniques (e.g. advertisements such as Vineta Cucini, Amaron Battery etc.)</li> </ul> </li> <li>Stop-motion animation</li> <li>Others including VFX, stereo conversion</li> </ul>





## **Understand Animation Requirements**

A. Organizational Context (Knowledge of the company/ organization and its processes)       The user/individual on the job needs to know and understand: KA1. The objective/purpose that the end-product intends to achieve KA2. The needs and expectations of the Director, Art Director and Supervisor with respect to the process and techniques to be used KA4. Limitations on the time and resources and issues that might arise during production KA5. The animation process and technical pipeline to be followed for animation KA6. The format of the end-product and the medium on which it would be exhibited         B. Technical Knowledge       The user/individual on the job needs to know and understand: KB1. The fundamentals and principles of animation KB2. The principles of animation including squash and stretch, anticipation, staging, straight action, posing and character emotion KB3. The basic rules of animation including squash and stretch, anticipation, staging, straight action, posing and character emotion KB4. Life drawing including human anatomy, emotions, actions and expressions KB5. Production concepts and their applicability to each project KB6. The various techniques available for animation golgets KB7. How to observe, act and emote KB8. The technical aspects of the job undertaken by other members of the production team (before and after the work for an animator) KB9. Applicability of various techniques to post production of each project KB10. Intellectual property rights to ensure that the end-product, elements, artwork etc. created is unique and does not infringe upon the rights of other products         Skills (S) (Optional)       A. Core Skills/ Generic Skills       The user/individual on the job needs to know and understand how to: SA1. Document the project brief that can serve as a reference document for circulation to the productin team (Supervisor)         SA2. Doc	Knowledge and Understanding (K)				
KnowledgeKB1. The fundamentals and principles of animationKB2. The principles of animation, posing and character emotionKB3. The basic rules of animation including squash and stretch, anticipation, staging, straight action, pose-to-pose, follow-through, overlapping action, ease in ease out, exaggeration, timing, appeal and secondary actionKB4. Life drawing including human anatomy, emotions, actions and expressionsKB5. Production concepts and their applicability to each projectKB6. The various techniques available for animating objectsKB7. How to observe, act and emoteKB8. The technical aspects of the job undertaken by other members of the production team (before and after the work of an animator)KB9. Applicability of various techniques to post production of each projectKB10. Intellectual property rights to ensure that the end-product, elements, artwork etc. created is unique and does not infringe upon the rights of other productsSkills (S) (Optional)A. Core Skills/ Generic SkillsWriting SkillsThe user/individual on the job needs to know and understand how to: SA1. Document the project brief that can serve as a reference document for circulation to the production team (Supervisor)SA2. Document decisions on the technique to be used and reasons thereof (Supervisor)SA3. Document other areas (e.g. requirements of the target audience, market, end-product, reference links, videos etc.) that may be relevant for the production teamSA4. Document notes on the project brief, techniques and other useful	<b>Context</b> (Knowledge of the company / organization and	<ul> <li>KA1. The objective/purpose that the end-product intends to achieve</li> <li>KA2. The needs and expectations of the producer/project sponsor</li> <li>KA3. The expectations of the Director, Art Director and Supervisor with respect to the process and techniques to be used</li> <li>KA4. Limitations on the time and resources and issues that might arise during production</li> <li>KA5. The animation process and technical pipeline to be followed for animation</li> <li>KA6. The format of the end-product and the medium on which it would be</li> </ul>			
A. Core Skills/ Generic Skills       Writing Skills         The user/individual on the job needs to know and understand how to: SA1. Document the project brief that can serve as a reference document for circulation to the production team (Supervisor)         SA2. Document decisions on the technique to be used and reasons thereof (Supervisor)         SA3. Document other areas (e.g. requirements of the target audience, market, end-product, reference links, videos etc.) that may be relevant for the production team         SA4. Document notes on the project brief, techniques and other useful		<ul> <li>KB1. The fundamentals and principles of animation</li> <li>KB2. The principles of animation, posing and character emotion</li> <li>KB3. The basic rules of animation including squash and stretch, anticipation, staging, straight action, pose-to-pose, follow-through, overlapping action, ease in ease out, exaggeration, timing, appeal and secondary action</li> <li>KB4. Life drawing including human anatomy, emotions, actions and expressions</li> <li>KB5. Production concepts and their applicability to each project</li> <li>KB6. The various techniques available for animating objects</li> <li>KB7. How to observe, act and emote</li> <li>KB8. The technical aspects of the job undertaken by other members of the production team (before and after the work of an animator)</li> <li>KB9. Applicability of various techniques to post production of each project</li> <li>KB10. Intellectual property rights to ensure that the end-product, elements, artwork</li> </ul>			
Generic Skills       The user/individual on the job needs to know and understand how to:         SA1.       Document the project brief that can serve as a reference document for circulation to the production team (Supervisor)         SA2.       Document decisions on the technique to be used and reasons thereof (Supervisor)         SA3.       Document other areas (e.g. requirements of the target audience, market, end-product, reference links, videos etc.) that may be relevant for the production team         SA4.       Document notes on the project brief, techniques and other useful	Skills (S) ( <u>Optional</u> )				
Reading Skills		<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA1. Document the project brief that can serve as a reference document for circulation to the production team (Supervisor)</li> <li>SA2. Document decisions on the technique to be used and reasons thereof (Supervisor)</li> <li>SA3. Document other areas (e.g. requirements of the target audience, market, end-product, reference links, videos etc.) that may be relevant for the production team</li> <li>SA4. Document notes on the project brief, techniques and other useful information for personal use (team)</li> </ul>			





**Understand Animation Requirements** 

		<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA5. Read and understand the script and determine animation requirements (including specifics of the characters, country, culture etc.)</li> <li>SA6. Read about emerging techniques in animation and update skills accordingly</li> <li>SA7. Read and understand the comments given by the supervisor, director or customer</li> <li>SA8. Research the various types of end-products that have been produced and are available in the public domain</li> </ul>
		Oral Communication (Listening and Speaking skills)
		The user/individual on the job needs to know and understand how to:
		SA9. Understand, clarify and agree on the project brief and parameters of the end- product with the Producer and Director
		SA10. Discuss and agree on the technique to be used with the Director and Art Director
		SA11. Communicate the project brief effectively to team members, other animators and members from various departments involved in the animation process (Supervisor)
		SA12. Clarify needs and communicate with clients (knowledge of English is preferred)
В.	Professional Skills	Plan and Organize
		<ul> <li>The user/individual on the job needs to krow and understand:</li> <li>SB1. Document creative and production requirements, for oneself or the wider team, in an organized manner</li> <li>SB2. Work effectively as a member of the team and help realise overall timelines</li> <li>SB3. Prioritise work-products and tasks based on requirements</li> </ul>
		Critical Thinking
		The user/individual on the job needs to know and understand how to: SB4. Understand the perspective of Client, Director, Art Director and Supervisors so as to critically evaluate and select appropriate animation techniques





**Understand Animation Requirements** 

## **NOS Version Control**

NOS Code	MES/ N 0701		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









**Conceptualise Creative Ideas for Production** 

# National Occupational Standard



## **Overview**

This unit is about detailing the creative and design aspects of production





## **Conceptualise Creative Ideas for Production**

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Unit Code	MES/ N 0702		
Unit Title (Task)	Conceptualise Creative Ideas for Production		
Description This OS unit is about detailing the creative and design aspects of produc			
Scope	This unit/task covers the following:		
	Gathering visual references to serve as aids during the animation process		
	Conceptualising creative ideas for animation		
Performance Criteria (I	PC) w.r.t. the Scope		
Element	Performance Criteria		
Gathering visual	To be competent, the user/individual on the job must be able to:		
references to serve as	PC1. Research and find character references that aid and inspire designs, including:		
aids during the	Previously executed animation work-products		
animation process	<ul> <li>Animations products available in the public domain</li> </ul>		
	Artwork and other human, animal and creature behavioral videos		
Conceptualising	PC2. Generate creative concepts and ideas for production using the concept art-		
creative ideas for	work prepared by the designers, including:		
animation	<ul> <li>Character's look, colors, dressing, attitude and behavior</li> </ul>		
	Character expressions, emotions, poses		
	Character movement (e.g. water un, jump) and timing (body mechanics)		
	Costume designs		
	Color, lighting concepts and shadow placement		
	Environment		
	PC3. Present and discuss concepts with the Director, Art Director or Supervisors PC4. Agree on the style of the work-product that would most appeal to the target		
	audience, taking into account production timelines and requirements		
Knowledge and Unders			
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. The guidelines provided by the Director, Animation Supervisor and the		
(Knowledge of the	Producer with respect to characters and look and feel of the end-product		
company /	KA2. The elements/concept artwork (prepared by the Character Designers and the		
organization and	Background/Layout designers) and the colour/lighting/shadow keys (prepared		
its processes)	by the art director, colour key artists)		
	KA3. The resources that are going to be used for production		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. The trends in animation and reference work-products produced before that		
	closely relate to the style and technique that needs to be produced		
	KB2. How to observe and study human behavior and expressions to help visualise		
	concepts KB3. How to enact and emote		
	KB4. How to create hook up poses and animation		
	KB5. How to use camera angles to emphasize performance		
	KB6. New media technology including what is good for the web, mobile, tablets		
	KB7. How to evaluate the strengths and weaknesses of the hardware, software		
	being used in the production pipeline		





## **Conceptualise Creative Ideas for Production**

Skills (S) ( <u>Optional</u> )				
A. Core Skills/	Writing Skills			
Generic Skills	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA1. Document links, animation videos, artwork etc. that can be used as references during the production process</li> <li>SA2. Document character profiles and background descriptions, to help present to Directors and supervisors, and guide the production process</li> <li>Reading Skills</li> </ul>			
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Interpret the storyboard/animatic correctly and understand the mood of the sequence/shot</li> <li>SA4. Research visual and written content to find appropriate references to be used during animation</li> <li>SA5. Keep apprised of the trends and work-products that are being produced in the market</li> </ul>			
	Oral Communication (Listening and Speaking skills) The user/individual on the job needs to know and understand how to: SA6. Suggest creative ideas to the Director and Animation supervisor SA7. Communicate clearly and collaborate effectively with colleagues from various departments			
B. Professional Skills	Plan and Organize         The user/individual on the job needs to know and understand:         SB1.       Document creative ideas and concepts in an organized manner         SB2.       Work effectively as a member of the team and help realise overall timelines         SB3.       Prioritise work-products and tasks based on requirements         Critical Thinking         The user/individual on the job needs to know and understand how to:         SB4.       Critically evaluate visual and written content/products during concept conceptualization			





**Conceptualise Creative Ideas for Production** 

# **NOS Version Control**

NOS Code	MES/ N 0702		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









**Plan Tools and Workflow** 

# National Occupational Standard



## **Overview**

This unit is about selecting the most appropriate software tool(s) for production and planning the workflow for animation





### Plan Tools and Workflow

Unit Code	MES/ N 0703
Unit Title (Task)	Plan Tools and Workflow
Description	This OS unit is about selecting the most appropriate software tool(s) for production and planning the workflow for animation
Scope	<ul> <li>This unit/task covers the following:</li> <li>Understanding the software tools to be used for production</li> <li>Understanding and following the work plan</li> </ul>
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Understanding the software tools to be used for production	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Stay apprised of the various types of software tools available for production in the market including:</li> <li>2D animation: Toon Boom Harmony, Adobe Flash, Hand-drawing</li> <li>3D animation: Autodesk Maya, XSI, Motion Builder, 3D Studio Max, Blender</li> <li>Other custom and in-house tools</li> <li>PC2. Research and recommend the most appropriate tools for the production</li> </ul>
Understanding and following the work plan	<ul> <li>PC3. Understand the workplan including production schedule, workflow, timelines, department wise output targets and technical specifications for the show</li> <li>PC4. Evaluate timelines for workflow, for oneself or the wider animation team, in accordance with the production schedule</li> <li>PC5. Read, follow and update the production workflow/schedule, deliverables and timelines with the Director, Art Director and Supervisors</li> </ul>
Knowledge and Under	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. The production process followed by the organization</li> <li>KA2. The production team and their individual roles and capabilities</li> <li>KA3. The standards for quality set by the organization</li> <li>KA4. The production process and creative brief</li> </ul>
B. Technical Knowledge	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KB1. The software tools and equipment available in-house and/or through third-party providers</li> <li>KB2. The nuances of various tools and how to suggest the best tool suitable for the production</li> <li>KB3. Traditional drawing tools and techniques</li> <li>KB4. How to plan a shot-break-up</li> <li>KB5. How to prepare a production schedule, including a break-up of activities that would need to be performed and deliverables that would need to be produced (supervisor)</li> <li>KB6. How to estimate the expected effort, expected time for production and</li> </ul>





#### Plan Tools and Workflow

	delivery keeping in mind the delivery dates, quality standards and project	
	schedule (Supervisor)	
	KB7. The principles of project management like Project planning, scheduling, effort	
	estimation, resource requirements (right from people to machines, space and	
	communication tools)	
	KB8. Risk and Mitigation planning	
	KB9. Rework and review management (efficiency and effectiveness)	
	KB10. Techniques to identify trends in rework and propose/implement corrective	
	action	
	KB11. CPM and PERT techniques	
	KB12. Configuration Management	
	KB13. The technical aspects of the job undertaken by other members of the	
	production team (before and after the work of an animator)	
	KB14. How to prepare a detailed work plan and demarcate roles and responsibilities	
	to members of the production team (Supervisor)	
Skills (S) ( <u>Optional</u> )		
A. Core Skills/	Writing Skills	
Generic Skills		
	The user/individual on the job needs to know and understand how to:	
	SA1. Prepare the work-plan (production plan and schedule) in an appropriate	
	format that can be used as a reference point for planning workflow and	
	assigning responsibilities(Supervisor)	
	SA2. Track the workflow on a regular basis and document deviations from	
	timelines (Supervisor)	
	SA3. Create and present project status reports	
	SA4. Write in English (added advantage)	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA5. Keep apprised of the various software tools that are being used to produce	
	animation	
	SA6. Read and understand the software manuals and help tools, where required	
	SA7. Read and understand the production and creative brief prepared by the	
	Director and Art Director	
	SA8. Read and understand notes, instructions and inputs from clients	
	SA9. Read in English (added advantage)	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA10. Clarify the production and creative brief from the Director, Art Director and	
	Supervisors	
	SA11. Understand the production specifications and quality standards to be	
	maintained	
	SA12. Discuss and agree upon the software tools to be used for production	
	SA13. Discuss and agree upon the production schedule and work plan	
	SA14. Communicate effectively with team members to demarcate workflow and	
	responsibilities	
	SA15. Seek clarifications on the work plan from Supervisors	







#### Plan Tools and Workflow

B. Professional Skills	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB1. Assess the effort, duration and cost involved for each work activity		
	SB2. Plan the production workflow, timelines and deliverables		
	SB3. Agree on the roles and responsibilities of the team members		
	SB4. Foresee any risks, issues and challenges that might arise during the		
	production environment and plan accordingly		









Plan Tools and Workflow

# **NOS Version Control**

NOS Code	MES/ N 0703		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









**Produce 2D Animation** 

# National Occupational Standard



## **Overview**

This unit is about producing a set of 2D animated images, based on the storyboard, which would create an illusion of movement once played back in a sequential manner





#### **Produce 2D Animation**

Unit Code	MES/ N 0704	
Unit Title (Task)	Produce 2D Animation	
Description	This OS unit is about producing a set of 2D animated images, based on the storyboard, which would create an illusion of movement once played back in a sequential manner.	
Scope	<ul> <li>This unit/task covers the following:</li> <li>Preparing a prototype 2D work product/pre-visualisation</li> <li>Preparing 2D animation end-products <ul> <li>This may be across: films, television series, advertisements, education content, work-products for the internet, promotional material/corporate presentations, game art, augmented reality and industry specific content such as scientific animation, legal and architecture</li> <li>Using 2D animation tools</li> <li>Reviewing, refining and storing end-products</li> <li>Working effectively within the animation team</li> </ul> </li> </ul>	
Performance Criteria (F	PC) w.r.t. the Scope	
Element	Performance Criteria	
Preparing a prototype 2D work product/pre- visualisation	To be competent, the user/individual on the job must be able to: PC1. Follow the storyboard for composition (eg: positioning of the character with respect to the background/camera to create the desired animation) PC2. Draw/source key frame drawings to establish reference points for poses	
Preparing 2D animation end- products	<ul> <li>PC3. Apply principles of design, 2D animation and film-making to create sequences and scenes/shots including cell animation or classic hand drawn animation, cut out animation and limited animation</li> <li>PC4. Incorporate audio/music assets</li> <li>PC5. Create shadows for animation using pre-defined lighting keys</li> <li>PC6. Bring assets together to produce sequences and scenes/shots as per requirements and ensuring continuity</li> <li>PC7. Ensure that the hook-up/transition from one scene to another is effective</li> </ul>	
Using 2D animation tools Reviewing, refining	<ul> <li>PC8. Use graphics and animation software to produce in-between poses for animation such as Toon Boom Harmony, Flash, Open source software</li> <li>PC9. Critically review animation produced, keeping in mind creative and design</li> </ul>	
and storing end- products	<ul> <li>PC9. Critically review animation produced, keeping in mind creative and design specifications and the production brief</li> <li>PC10. Refine the output based on deviations observed and/or modifications required within requisite timelines</li> <li>PC11. Ensure that work-products meet quality standards (so that they can be approved with minimum iterations) and are delivered in requisite timelines</li> <li>PC12. Organise, store and manage work-products into file formats using standard file naming conventions and maintain assets for further use</li> </ul>	
Working effectively within the animation team	PC13. Work and communicate effectively within the team and with other departments, namely assets, lighting and effects PC14. Train junior animators to improve their output quality and skills, if appropriate to the role	





#### **Produce 2D Animation**

Knowledge and Understanding (K)			
A. Organizational	The user/individual on the job needs to know and understand:		
Context	KA1. The objective/purpose that the end-product intends to achieve		
(Knowledge of the	KA2. Responsibilities and scope of work for various departments		
company /	KA3. The expectations of the Client, Director, Animation Supervisor and the		
organization and	Producer with respect to the process, techniques to be used and guidelines		
its processes)	with respect to characters and look and feel of the end-product		
	KA4. Limitations on the effort, schedule, resources and issues that might arise		
	during production		
	KA5. The production requirements and quality that needs to be reflected in the		
	final output		
	KA6. The timelines within which the product needs to be delivered		
B. Technical	The user/individual on the job needs to know and understand:		
Knowledge	KB1. The fundamentals and principles of Animation and film-making		
	KB2. Life drawing including human anatomy, emotions, actions and expressions		
	KB3. How to enact and emote; and thereby animate characters in accordance to		
	the demands of the script and animatic		
	KB4. Principles of movement and timing		
	KB5. How to work with graphics and animation software including Adobe Flash,		
	Harmony and understand their specifics		
	KB6. Design standards and specifications that needs to be complied with to		
	produce the final output		
	KB7. The interaction between various characters in a given scene and bring out		
	that dynamic in the animation		
	KB8. Applicable health and safety guidelines		
Skills (S) ( <u>Optional</u> )			
A. Core Skills/	Writing Skills		
Generic Skills			
Generic Skiis	The user/individual on the job needs to know and understand how to:		
	SA1. Document output, efforts and schedule taken to complete the allotted task		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA2. Read and understand the script and character descriptions		
	SA3. Read the work plan and production schedule to ensure that progress is in line		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	SA4. Suggest creative ideas to the Director and Animation supervisor		
	SA5. Communicate clearly and collaborate effectively with colleagues who are		
	working with the previous or next scenes/shots		
	SA6. Understand the modifications required from the Director, Animation		
	supervisor and Producer		
	SA7. Discuss the challenges faced during production and discuss ways to address		
	SA8. such challenges in future projects		







#### **Produce 2D Animation**

i sere f

р.	Professional Skills	Decision Making		
		The user/individual on the job needs to know and understand how to:		
		SB1. Make decisions in order to be able to work collectively and independently,		
		where required		
		Plan and Organize		
		The user/individual on the job needs to know and understand:		
		SB2. Understand shot break up and plan effort and time required for each element of the shot		
		SB3. How to plan and prioritise individual timelines and deliver on schedule		
		SB4. Work effectively as a member of the team and help realise overall timelines		
		SB5. Prioritise work-products and tasks based on requirements		
		Problem Solving		
		The user/individual on the job needs to know and understand how to:		
		SB6. Address comments and make changes		
		SB7. Seek assistance and guidance from the Director, Art Director and Supervisors,		
		where required		
		Critical Thinking		
		The user/individual on the job needs to know and understand how to:		
		SB8. Improve work-products and performance based on feedback received and		
		through self-appraisal		
		SB9. Understand the perspective of Client, Director, Art Director and Supervisors and apply it to the animation being produced		
	9. 7.			





**Produce 2D Animation** 

## **NOS Version Control**

NOS Code	MES/ N 0704		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









**Produce 3D Animation** 

# National Occupational Standard



## **Overview**

This unit is about animating 3D models using relevant techniques, based on the storyboard





### **Produce 3D Animation**

Unit Code	MES/ N 0705	
Unit Title (Task)	Produce 3D Animation	
Description	This OS unit is about animating 3D models using relevant techniques, based on the storyboard	
Scope	<ul> <li>This unit/task covers the following:</li> <li>Preparing a prototype 3D work product/pre-visualisation</li> <li>Preparing 3D animation end-products <ul> <li>This may be across: films, television series, advertisements, education content, work-products for the internet, promotional material/corporate presentations, game art, augmented reality and industry specific content such as scientific animation, legal and architecture</li> <li>Applying 3D animation techniques</li> <li>Using 3D animation tools</li> <li>Reviewing, refining and storing end-products</li> </ul> </li> </ul>	
Performance Criteria (P	C) w.r.t. the Scope	
Flement	Performance Criteria	

Element	Performance Criteria	
Preparing a prototype	To be competent, the user/individual on the be must be able to:	
3D work product/pre-	PC1. Follow the storyboard for composition (eg: positioning of the character with	
visualisation	respect to the background/camera to create the desired animation)	
	PC2. Prepare prototype work product/pre-visualisation	
Preparing 3D	PC3. Apply principles of design, 3D animation and film-making to create sequences	
animation end-	and scenes/shots	
products	PC4. Animate expressions and lip movements to match dialogues and sound	
	PC5. Communicate requirements to camera and lighting for motion capture,	
	where required	
	PC6. Work with motion capture data received from the motion/ performance	
	capture studio (clean up the data and map animation data to 3D models)	
Applying 3D	PC7. Apply 3D animation techniques, including:	
animation techniques	<ul> <li>Realistic 3D animation- motion capture + key frame animation (e.g. in</li> </ul>	
	films such as Beowulf, Avatar and Lord of the Rings's Gollum)	
	• Semi-realistic 3D animation (e.g. in films such as little Krishna and Brave)	
	<ul> <li>Toon 3D animation (e.g. films such as Kung-fu Panda)</li> </ul>	
	<ul> <li>Simulation of traditional &amp; stop motion techniques (e.g. advertisements</li> </ul>	
	such as Vineta Cucini, Amaron Battery etc.)	
Using 3D animation	PC8. Produce 3D movements and performance with the help of 3D animation tools	
tools	such as Autodesk Maya, XSI, 3d Studio Max, Blender, motion capture tools	
	like marker tracking cameras and inertial suits	
Reviewing, refining	PC15. Critically review animation produced, keeping in mind creative and design	
and storing end-	specifications and the production brief	
products	PC16. Refine the output based on deviations observed and/or modifications	
	required within requisite timelines	
	PC17. Ensure that work-products meet quality standards (so that they can be	







#### **Produce 3D Animation**

	approved with minimum iterations) and are delivered in requisite time-lines
	approved with minimum iterations) and are delivered in requisite timelines
	PC18. Organise, store and manage work-products into file formats using standard
	file naming conventions and maintain assets for further use
Working effectively	PC19. Work and communicate effectively within the team and other departments,
within the animation	namely design, modeling/rigging, texturing, editing, rendering, compositing
team	PC20. Train junior animators to improve their output quality and skills, if
	appropriate to the role
Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. The objective/purpose that the end-product intends to achieve
(Knowledge of the	KA2. The profile of the target audience for the end-product
company /	KA3. Responsibilities and scope of work expected from the animator
organization and	KA4. The expectations of the Client, Director, Animation Supervisor and the
its processes)	Producer with respect to the process, techniques to be used and guidelines
	with respect to characters and look and feel of the end-product
	KA5. Limitations on the effort, duration, schedule and resources and issues that
	might arise during production
	KA6. The production requirements and quality that needs to be reflected in the
	final output
	KA7. The timelines within which the product needs to be delivered
	KA8. The typical processes involved 3D Animation Production i.e. staging, blocking,
	1st. level animation, lip-sync and facials, final animation, specialised
	animation (cloth and hair simulation), secondary animation (accessories),
	lighting & rendering, sfx and compositing
	KA9. Applicable health and safety guidelines
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. Basic/advanced scripting
hitomedge	KB2. The fundamentals and principles of 3D Animation, 3D Environments and film-
	making
	KB3. Art and visual treatment
	KB4. Fundamentals of Motion capture and performance capture technologies
	KB5. Principles of movement and timing
	KB6. Principles of human/animal/ character anatomy and how they can be applied
	to animation
	KB7. How to observe and study human/ animal/ character behavior and expressions to help visualise concepts
	KB8. How to enact and emote; and thereby animate characters in accordance to
	the demands of the script and animatic
	KB9. Properties of the surfaces that are being used in the animation
	KB10. How to work with graphics and animation software including Autodesk Maya,
	Softimage, XSI, 3D Studio Max and Blender
	KB11. Design standards and specifications that needs to be complied with to
	produce the final output
	KB12. 3D output and delivery formats
	KB13. Basics of modeling and rigging (added advantage)
	KB14. Applicable health and safety guidelines







### **Produce 3D Animation**

Skills (S) ( <u>Optional</u> )			
A. Core Skills/	Writing Skills		
Generic Skills	The user/individual on the job needs to know and understand how to: SA1. Report output, efforts and schedule taken to complete the allotted task Reading Skills		
	The user/individual on the job needs to know and understand how to: SA2. Read and understand the script and character descriptions SA3. Read the work plan and production schedule to ensure that progress is in line SA4. Read and understand the short division, character identification and frames planned during motion / performance capture		
	Oral Communication (Listening and Speaking skills)		
The user/individual on the job needs to know and understand how to:SA5. Suggest creative ideas to the Director and Animation supervisorSA6. Communicate clearly and collaborate effectively with colleague working with the previous or next scenes/shotsSA7. Understand the modifications required from the Director, Anim supervisor and ProducerSA8. Discuss the challenges faced during production and discuss way such challenges in future projectsB. Professional SkillsPlan and OrganizeThe user/individual on the job needs to know and understand how to: SB1. How to plan individual timelines and deliver on schedule SB2. Work effectively as a member of the team and help realise over SB3. Prioritise work-products and tasks based on requirements			
	Problem Solving		
The user/individual on the job needs to know and understand how to: SB5. Address comments and make changes SB6. Seek assistance and guidance from the Director, Art Director an where required Critical Thinking			
	The user/individual on the job needs to know and understand how to: SB7. Improve work-products and performance based on feedback received and through self-appraisal		





**Produce 3D Animation** 

## **NOS Version Control**

NOS Code	MES/ N 0705		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









**Produce Stop Motion Animation** 

# National Occupational Standard



## **Overview**

This unit is about producing stop motion animation using relevant techniques, based on the storyboard





#### **Produce Stop Motion Animation**

Unit Code	MES/ N 0706		
Unit Title (Task)	Produce Stop Motion Animation		
Description	This OS unit is about producing stop motion animation using relevant techniques, based on the storyboard		
Scope	<ul> <li>This unit/task covers the following:</li> <li>Preparing a prototype work product/pre-visualisation</li> <li>Preparing stop motion animation end-products <ul> <li>This may be across: films, television series, advertisements, education content, work-products for the internet, promotional material/corporate presentations, game art, augmented reality and industry specific content such as scientific animation, legal and architecture</li> <li>Reviewing, refining and storing end-products</li> <li>Applying stop-motion animation techniques</li> <li>Working effectively within the animation team</li> </ul> </li> </ul>		
Performance Criteria (F	Performance Criteria (PC) w.r.t. the Scope		
Element	Performance Criteria		
Preparing a prototype work product/pre- visualisation	To be competent, the user/individual on the job must be able to: PC1. Follow the storyboard for composition (eg: the way characters will act/move in accordance with the storyboard) PC2. Prepare prototype work products/pre-visualisation		
Preparing stop motion animation end-products	<ul> <li>PC3. Move characters and construct/compose a shot as per the storyboard</li> <li>PC4. Animate stop motion characters (puppets or models) in accordance with the script and any feedback from the Director/Producer/Supervisor</li> </ul>		
Applying stop-motion animation techniques	<ul> <li>PC5. Apply stop motion animation techniques including:</li> <li>Traditional frame-by-frame capture</li> <li>Claymation</li> <li>Cut-out using computer-generated tools</li> </ul>		
Reviewing, refining	PC6. Critically review animation produced, keeping in mind creative and design		

Reviewing, refining	PC6.	Critically review animation produced, keeping in mind creative and design
and storing end-		specifications and the production brief
products	PC7.	Refine the output based on deviations observed and/or modifications
		required within requisite timelines
	PC8.	Ensure that work-products meet quality standards (so that they can be

	<ul> <li>PC8. Ensure that work-products meet quality standards (so that they can be approved with minimum iterations) and are delivered in requisite timelines</li> <li>PC9. Organise, store and manage work-products into file formats using standard file naming conventions and maintain assets for further</li> </ul>
Working effectively within the animation	PC10. Train junior animators to improve their output quality and skills, if appropriate to the role
team	





### **Produce Stop Motion Animation**

Knowledge and Unders	standing (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	KA1. The objective/purpose that the end-product intends to achieve
(Knowledge of the	KA2. The profile of the target audience for the end-product
company /	KA3. Responsibilities and scope of work for various departments
organization and	KA4. The expectations of the Director, Animation Supervisor and the Producer with
its processes)	respect to the process, techniques to be used and guidelines with respect to
	characters and look and feel of the end-product
	KA5. Limitations on the time and resources and issues that might arise during
	production
	KA6. The production requirements and quality that needs to be reflected in the
	final output
	KA7. The timelines within which the product needs to be delivered
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. The fundamentals and principles of Animation and film-making
	KB2. Stop motion animation techniques
	KB3. Principles of movement and timing
	KB4. How to develop/portray the character in accordance to the script
	KB5. Principles of human anatomy and how they can be applied to animation
	KB6. How to observe and study human behavior and expressions to help visualise
	concepts
	KB7. How to enact and emote; and thereby animate characters in accordance to
	the demands of the script and animatic
	KB8. Properties of the characters and materials that are being used in the animation
	KB9. How to work with graphics and animation software including Autodesk Maya,
	XSI, 3D studio max and Blender
	KB10. Design standards and specifications that needs to be complied with to
	produce the final output
	KB11. Applicable health and safety guidelines
Skills (S) (Optional)	
A. Core Skills/	Reading Skills
Generic Skills	
	The user/individual on the job needs to know and understand how to:
	SA1. Read and understand the script and character descriptions
	SA2. Read the work plan and production schedule to ensure that progress is in line
	Oral Communication (Listening and Speaking skills)
The user/individual on the job needs to know and understand how to:	
	SA3. Suggest creative ideas to the Director and Animation supervisor
	SA4. Communicate clearly and collaborate effectively with colleagues who are
	working with the previous or next scenes/shots
	SA5. Understand the modifications required from the Director, Animation
	supervisor and Producer
	SA6. Discuss the challenges faced during production and discuss ways to address
	such challenges in future projects





## **Produce Stop Motion Animation**

B. Professional Skills	Plan and Organize		
	The user/individual on the job needs to know and understand how to:		
	SB1. How to plan individual timelines and deliver on schedule		
	SB2. Work effectively as a member of the team and help realise overall timelines SB3. Prioritise work-products and tasks based on requirements		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB4. Address comments and make changes		
	SB5. Seek assistance and guidance from the Director, Art Director and Supervisors, where required		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB6. Improve work-products and performance based on feedback received and		
	through self-appraisal		









**Produce Stop Motion Animation** 

## **NOS Version Control**

NOS Code	MES/ N 0706		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15









# National Occupational Standard



## **Overview**

This unit is about contributing towards maintaining a healthy, safe and secure working environment





Unit Code	MES/ N 0707		
Unit Title (Task)	Maintain workplace health and safety		
Description	This OS unit is about contributing towards maintaining a healthy, safe and secure working environment		
Scope	<ul> <li>This unit/task covers the following:</li> <li>Understanding the health, safety and security risks prevalent in the workplace</li> <li>Knowing the people responsible for health and safety and the resources available</li> <li>Identifying and reporting risks</li> <li>Complying with procedures in the event of an emergency</li> </ul>		
Performance Criteria (F	PC) w.r.t. the Scope		
Element	Performance Criteria		
Understanding the health, safety and security risks prevalent in the workplace	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Understand and comply with the organisation's current health, safety and security policies and procedures</li> <li>PC2. Understand the safe working practices pertaining to own occupation</li> <li>PC3. Understand the government norms and policies relating to health and safety including emergency procedures for illness, accidents, fires or others which may involve evacuation of the previouses</li> <li>PC4. Participate in organization health and safety knowledge sessions and drills</li> </ul>		
Knowing the people responsible for health and safety and the resources available Identifying and reporting risks	<ul> <li>PC5. Identify the people responsible for health and safety in the workplace, including those to contact in case of an emergency.</li> <li>PC6. Identify security signals e.g. fire alarms and places such as staircases, fire warden stations, first aid and medical rooms.</li> <li>PC7. Identify aspects of your workplace that could cause potential risk to own and others health and safety.</li> <li>PC8. Ensure own personal health and safety, and that of others in the workplace though precautionary measures.</li> <li>PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person.</li> <li>PC10. Report any hazards outside the individual's authority to the relevant person in line with organisational procedures and warn other people who may be affected.</li> </ul>		
Complying with procedures in the event of an emergencyPC11. Follow organisation's emergency procedures for accidents, fires a natural calamity in case of a hazard PC12. Identify and correct risks like illness, accidents, fires or any other calamity safely and within the limits of individual's authorityKnowledge and Understanding (K)			
A. Organizational Context (Knowledge of the company / organization and	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. Organisation's norms and policies relating to health and safety</li> <li>KA2. Government norms and policies regarding health and safety and related emergency procedures</li> <li>KA3. Limits of authority while dealing with risks/ hazards</li> <li>KA4. The importance of maintaining high standards of health and safety at a</li> </ul>		





its processes)	workplace		
B. Technical Knowledge       The user/individual on the job needs to know and understand:         KB1. The different types of health and safety hazards in a workplace         KB2. Safe working practices for own job role         KB3. Evacuation procedures and other arrangements for handling risks         KB4. Names and contact numbers of people responsible for health and s         workplace         KB5. How to summon medical assistance and the emergency services, w         necessary         KB6. Vendors' or manufacturers' instructions for maintaining health and         while using equipments, systems and/or machines			
Skills (S) ( <u>Optional</u> )			
A. Core Skills/ Generic Skills	Writing Skills         The user/individual on the job needs to know and understand how to:         SA1. How to write and provide feedback regarding health and safety to the concerned people         SA2. How to write and highlight potential risks or report a hazard to the concerned people		
	Reading Skills         The user/individual on the job needs to know and understand how to:         SA3.       Read instructions, policies, procedures and norms relating to health and safety         Oral Communication (Listening and Speaking skills)         The user/individual on the job needs to know and understand how to:         SA4.       Highlight potential risks and report hazards to the designated people         SA5.       Listen and communicate information with all anyone concerned or affected		
B. Professional Skills	Decision making         The user/individual on the job needs to know and understand how to:         SB1. Make decisions on a suitable course of action or plan         Plan and Organize         The user/individual on the job needs to know and understand how to:         SB2. Plan and organize people and resources to deal with risks/ hazards that lie within the scope of one's individual authority		
	Problem Solving         The user/individual on the job needs to know and understand how to:         SB3. Apply problem solving approaches in different situations         Critical Thinking         The user/individual on the job needs to know and understand how to:         SB4. Understand hazards that fall within the scope of individual authority and report all hazards that may supersede one's authority         SB5. Apply balanced judgements in different situations		





## **NOS Version Control**

NOS Code	MES / N 0707		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	29/07/15





**Qualifications Pack For Animator** 



## **Annexure**

### Nomenclature for QP and NOS



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#### The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers

Sequence	Description	Example
Three letters	Media and Entertainment	MES
Slash	/	/
Next letter	Whether <b>Q</b> P or <b>N</b> OS	Q
Next two numbers	Animator	07
Next two numbers	QP number	01

Job Role/Qualification Pack	Animator
QP- ID	MES Q 0701

	NOS	NOS NAME	
1	MES / N 0701	Understand Animation Requirements	20%
2	MES/ N 0702	Conceptualize creative ideas for Production	15%
3	MES/ N 0703	Plan Tools and Workflow	15%
4	MES/ N 0704	Produce 2D Animation	
5	MES/ N 0705	Produce 3D Animation	45%
6	MES/ N 0706	Produce Stop Motion Animation	
7	MES/N 0707	Maintain workplace Health & Safety	5%
		Note: MES/N 0704, MES/N 0705 & MES/N 0706 Student would be assessed for only one NOS out of the three NOS's.	100%

#### **Guidelines for Assessment**

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory & Practical part will be based on knowledge bank of questions created by the AA and approved by SSC

3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below)

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.

5. To pass the Qualification Pack, every trainee should score a minimum of 70% cumulatively (Theory and Practical)

	Job Role	Animator				
NOS			Total	Ma	tion	
Code			marks	Marks Allocation		
	Nos Name	Assessment Criteria		Out of	Theory	Skills

		the job must be able to: PC1. Understand, clarify and agree on the project brief from the Director, Art				
		Director and Supervisors. This could include the following: Objective, concept/style of animation, script, storyboard and animatic, do's and don'ts for animation, target audience, project pipeline/ asset management/ scheduling and activities, project timelines and constraints, production brief/ key milestones for delivery, creative brief/desired look of the end-product – using similar projects for reference, quality standards to be maintained, technical details like aspect ratio, output format, list of deliverables and their respective output format		35	20	50
MES/ N 0701	Understand Script Requirements	PC2. Understand various parameters of the end-product that would influence production requirements (e.g. duration, style, number of characters, subject and storyline, culture and period the story is based in, effects required, format, music etc.)	100	25	10	
		PC3. Understand the treatment of the output that needs to be produced and the volume of the final output		20	10	
		PC4. Understand the shot sequence (high- level) and continuity/consistency Required		10	5	
		<ul> <li>PC5. Select an appropriate animation technique based on the output required.</li> <li>This could include:</li> <li>2D animation: cell animation e.g. early episodes of tom and jerry (series), cut out animation e.g. charlie and lola (series), limited animation e.g. south park, empire square (series)</li> <li>3D Animation: realistic 3D animation e.g. beowulf, avatar, gollum (movies), semirealistic</li> <li>e.g. little krishna, brave (movies), toon animation e.g. kung-fu panda (movie), simulation of traditional &amp; stop motion techniques e.g. vineta cucini and amaron battery (advertisements, flushed away (movie), stop-motion animation, VFX, stereo conversion</li> </ul>		10	5	
			Total	100	50	50

NOS			Total marks	Ma	rks Alloca	tion
Code	Nos Name	Assessment Criteria		Out of	Theory	Skills
		PC1. Research and find character references that would aid and inspire designs		40	20	
MES/ N 0702	Conceptualise creative ideas	PC2. Generate creative concepts and ideas for production using visualization and using references from the concept art-work prepared by the designers, drawing from imagination, acting and performing	100	25	15	50
10702	for Production	PC3. Present ideas to the Director, Art Director and Supervisors		20	10	
		PC4. Agree on the style of the work-product that would most appeal to the target audience in sync with the schedule and show requirement"		15	5	
			Total	100	50	50

Nos Code		Assessment Criteria	Total marks	Mai	rks Allocat	tion
	Nos Name			Out of	Theory	Skills
		PC1. Stay apprised of the various types of software tools available for production in the market PC2. Research and Suggest the best tool for the production		30	15	
MES/	Plan Tools and Workflow			30	15	
N 0703		PC3. Evaluate timelines for production in accordance to the production schedule (supervisor)	100	20	10	50
		PC4. Read, follow and update the production workflow/schedule, deliverables and timelines with the Director, Art Director and Supervisors"		20	10	
			Total	100	50	50

Nos			Total marks	Ma	rks Alloca	tion
Code	Nos Name	Assessment Criteria		Out of	Theory	Skills

		P1. Follow the storyboard for composition i.e.		10	5	
		positioning of the character				
		with respect to the background and camera to create the desired animation				
		P2. Draw/source key frame drawings to establish a		10	5	
		reference point for strong poses		10	J	
		PC3. Incorporate audio/music assets		5	3	
		PC4. Create shadows for animation using pre- defined lighting keys		5	2	
		PC5. Bring assets together to produce sequences and scenes/shots as per requirements and ensuring continuity		5	3	
		PC6. Ensure that the hook-up/transition from one scene to another is done properly		5	2	
		PC7. How to work with layers and get a good perspective view		5	3	
		PC8. Work effectively within the team and with other departments, namely, assets, lighting and effects		5	2	
MES/ N 0704	Produce 2D Animation	PC9. Critically review animation produced, keeping in mind the creative and design specifications and producer brief	100	5	3	50
		"PC10. Refine the output based on deviations observed and/or modifications required within requisite timelines		5	2	_
		PC11. Ensure that the work-products meet quality standards (so that they can be approved with minimum iterations) and are delivered within the requisite"		5	2	
		· · ·				_
		PC12. How to achieve the required output targets		5	3	
		PC13. Organise, store and manage work-products into file formats using standard file naming conventions and maintain assets for further use		5	2	
		PC14. Train junior animators to improve their quality ability to deliver within given timelines		5	2	_
		PC15. Apply principles of design, 2D animation and film-making to create sequences and scenes/shots		10	5	
		PC16. Apply varied techniques and styles based on the requirement		5	3	
	l					

	PC17. Use graphics and animation software to produce in-between poses for Animation		5	3	
		Total	100	50	50

Nos			Total marks	Ma	rks Alloca	tion
Code	Nos Name	Assessment Criteria		Out of	Theory	Skills
		"PC1. Apply principles of design, 3D animation and film-making to create sequences and scenes/shots		20	10	
		PC2. Follow the storyboard for composition i.e. positioning of the character model with respect to the background and camera to create the desired animation		10	5	
		PC3. Animate expressions and lip movements to match dialogues and sound		10	5	
	Produce 3D Animation	PC4. Communicate requirements to camera and lighting for motion capture, where required		5	2	
		PC5. Work with motion capture data received from the motion/ performance		5	3	
MES/		capture studio (clean up the data and map animation data to 3D models)"		10	5	
N 0705		PC6. Prepare a prototype work product/pre- visualisation for review		5	3	50
		PC7. Refine the product until the required creative effect is achieved		5	2	
		PC8. Organise, store and manage work-products into file formats using standard file naming conventions and maintain assets for further use "		5	3	
	PC9. Work effect other departme modelling/riggin compositing" PC10. Critically in mind the crea	PC9. Work effectively within the team and with other departments, namely, design, modelling/rigging, texturing, editing, rendering and		5	3	
		PC10. Critically review animation produced, keeping in mind the creative and design specifications and producer brief "		5	3	
		PC11. Refine the output based on deviations observed and/or modifications		5	3	
			Total	100	50	50

Nos			Total marks	Ma	rks Alloca	tion
Code	Nos Name	Assessment Criteria		Out of	Theory	Skills

MES/N 0706	Produce Stop Motion Animation Motion Animation Here the char PC2. Mo shot in a prototyp PC3. Ani models) instructi PC4. Cor process PC5. App including capture,	"PC1. Understand requirements including the way the characters will act/move in accordance to the storyboard "	- 100	20	10	- 50
		PC2. Move characters and construct/compose a shot in accordance to the script and storyboard as a prototype		20	10	
		PC3. Animate stop motion characters (puppets or models) in accordance to the script and directors instructions		20	10	
		PC4. Contribute creative ideas during the animation process		20	10	
		PC5. Apply stop motion animation techniques including traditional frameby-frame capture, Claymation and cut-out using computer- generated tools		20	10	
			Total	100	50	50

Nos Code	Nos Name	Assessment Criteria	Total marks	Marks Allocation		
				Out of	Theory	Skills
MES/N 0707	Maintain workplace health and safety Description	PC1. Understand and comply with the organisation's current health, safety and security policies and procedures	100	10	5	50
		PC2. Understand the safe working practices pertaining to own occupation		10	5	
		PC3. Understand the government norms and policies relating to health and safety including emergency procedures for illness, accidents, fires or others which may involve evacuation of the premises		5	3	
		PC4. Participate in organization health and safety knowledge sessions and drills		5	2	
		PC5. Identify the people responsible for health and safety in the workplace, including those to contact in case of an emergency		10	5	
		PC6. Identify security signals e.g. fire alarms and places such as staircases, fire warden stations, first aid and medical rooms		10	5	
		PC7. Identify aspects of your workplace that could cause potential risk to own and others health and safety		10	5	
		PC8. Ensure own personal health and safety, and that of others in the workplace though precautionary measures		10	5	
		PC9. Identify and recommend opportunities for improving health, safety, and security to the		5	3	

(	designated person				
	PC10. Report any hazards outside the individual's authority to the relevant person in line with organizational procedures and warn other people who may be affected		10	5	
f	PC11. Follow organization's emergency procedures for accidents, fires or any other natural calamity in case of a hazard		10	5	
ä	PC12. Identify and correct risks like illness, accidents, fires or any other natural calamity safely and within the limits of individual's authority		5	2	
		Total	100	50	50