

# 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

## 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.

## Qualifications Pack For Animator



Job Details

Qualifications Pack Code	MES/ Q 0701		
Job Role	<b>Animator</b> This job role is applicable in both national and international scenarios		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBDVersion number01		
Sector	Media and Entertainment	Drafted on	16/07/13
Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
Occupation	Animator	Next review date	08/08/13

Job Role	Animator	
Role Description	Producing a sequence of 2D/3D images using animation	
	software	
NVEQF/NVQF level	4	
Minimum Educational Qualifications	Class X and above	
Maximum Educational Qualifications	Graduation in Fine arts or equivalent	
	Study of fundamentals & principles of Animation	
Training	Training on 2D/3D Software Tools	
(Suggested but not mandatory)	Course in Fine Arts	
	Animation foundation course covering body mechanics,	
	advance acting skills etc.	
Experience	0-1 years Trainee Animator/ Junior Animator	
	1-3 years Animator	
	Compulsory:	
	1. MES / N 0701 (Understand Animation Requirements)	
	2. MES / N 0702 (Conceptualise Creative Ideas for	
	Production)	
Applicable National Occupational	3. MES / N 0703 (Plan Tools and Workflow)	
Standards (NOS)		
	Optional:	
	4. MES / N 0704 (Produce 2D Animation)	
	5. MES / N 0705 (Produce 3D Animation)	
	6. <u>MES / N 0706 (Produce Stop Motion Animation)</u>	
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	
NVEQF	National Vocational Education Qualifications Framework	
NVQF	National Vocational Qualifications Framework	

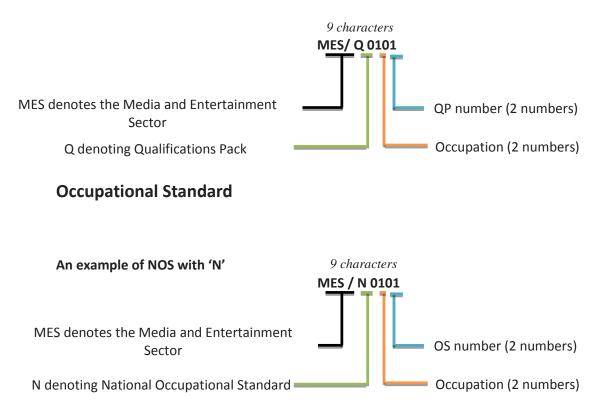
**Qualifications Pack For Animator** 



## <u>Annexure</u>

## Nomenclature for QP and NOS

## **Qualifications Pack**



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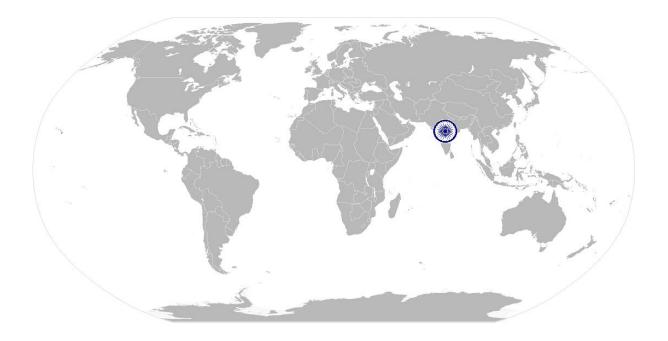
The following acronyms/codes have been used in the nomenclature above:

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



# National Occupational Standard



## **Overview**

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





MES/ N 0701

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	This unit/task covers the following:
Scope	This unit/task covers the following: Understanding the following from the Director and Art Director: 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 Understanding the type of end-product that needs to be produced Film Television series Mobile/Tablet/ Handheld episodes Advertisement Education content/ edutainment Work-products for the Internet Promotional material/Corporate presentations Game art (Player Animation, Environment Animation, Background etc.) Simulation 3D Augmented reality Industry specific content such as Scientific Animation, Legal, Architecture, Medical, Research wings of Armed forces etc. Specifics for delivery with respect to the web/mobile platform Selecting the animation technique(s) to be used: 2D animation
	<ul> <li>Cell Animation e.g. early episodes of Tom and Jerry (series)</li> <li>Cut out animation e.g. Charlie and Lola (series)</li> </ul>

NOS	
National Occupational Standards	



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	<ul> <li>Limited Animation e.g. South Park, Empire Square (series)</li> <li>3D Animation         <ul> <li>Realistic 3D Animation e.g. Beowulf, Avatar, Gollum (movies)</li> <li>Semi-realistic e.g. Little Krishna, Brave (movies)</li> <li>Toon animation e.g. Kung-fu Panda (movie)</li> <li>Simulation of traditional &amp; stop motion techniques e.g. Vineta Cucini and Amaron Battery (advertisements, Flushed Away (movie)</li> </ul> </li> <li>Stop-motion animation</li> <li>VFX</li> <li>Stereo Conversion</li> </ul>
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
	<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</li> <li>PC2. Understand various parameters of the end-product that would influence production requirements (e.g. duration, style, number of characters, storyline, effects required, format, music etc.)</li> <li>PC3. Understand the treatment of the output that needs to be produced and the volume of the final output</li> <li>PC4. Understand the shot sequence (high-level) and continuity/consistency required</li> </ul>
Knowledge and Under	
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 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 exhibited</li> </ul>
B. Technical Knowledge	<ul> <li>The user/individual on the job needs to know and understand:</li> <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,</li> </ul>

NOS
National Occupational Standards



## **Understand Animation Requirements**

	<ul> <li>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 etc. created is unique and does not infringe upon the rights of other products</li> </ul>
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 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> <li>Reading Skills</li> <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> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA9. Understand, clarify and agree on the project brief and parameters of the end-product with the Producer and Director</li> <li>SA10. Discuss and agree on the technique to be used with the Director and Art Director</li> <li>SA10. Discuss and agree on the technique to the used with the Director and Art Director</li> <li>SA10. Communicate the project brief effectively to team members, other animators and members from various departments involved in the animation process (Supervisor)</li> </ul>
	SA12. Clarify needs and communicate with clients (knowledge of English is preferred)





#### MES/ N 0701

## **NOS Version Control**

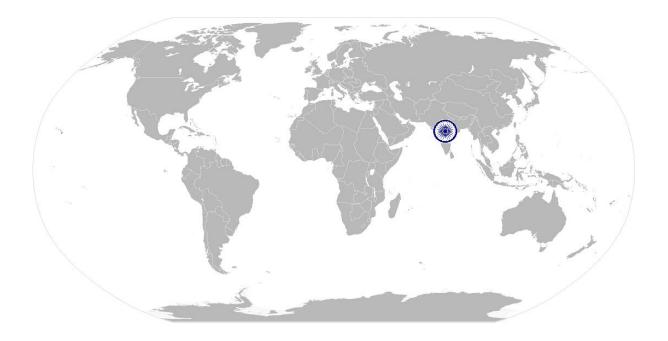
NOS Code	MES/ N 0701		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	тво	Version number	01
Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13

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**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**

MES/ N 0702

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 production
Scope	<ul> <li>This Os unit is about detailing the creative and design aspects of production</li> <li>This unit/task covers the following:</li> <li>Gather visual references that could serve as aids during the animation process, including: <ul> <li>Previously executed animation work-products</li> <li>Animations products available in the public domain</li> <li>Artwork</li> <li>General Human, Animal and creature behavioral video references</li> </ul> </li> <li>Conceptualise creative ideas for animation using the concept art-work prepared by the designers, including the following: <ul> <li>Character's look, colors, dressing, attitude and behavior</li> <li>Character expressions, emotions, poses</li> <li>Character movements (e.g. walk, run, jump etc.) and timing (acting and body</li> </ul> </li> </ul>
Performance Criteria (F	<ul> <li>mechanics)</li> <li>Shadow placement</li> </ul>
Element	Performance Criteria
	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Research and find character references that would aid and inspire designs</li> <li>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</li> <li>PC3. Present ideas to the Director, Art Director and Supervisors</li> <li>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</li> </ul>
Knowledge and Unders	
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. The guidelines provided by the Director, Animation Supervisor and the Producer with respect to characters and look and feel of the end-product</li> <li>KA2. The elements/concept artwork (prepared by the Character Designers and the Background/Layout designers) and the colour/lighting/shadow keys (prepared by the art director, colour key artists)</li> </ul>





## **Conceptualise Creative Ideas for Production**

its processes)	KA3. The resources that are going to be used for production
B. Technical Knowledge	The user/individual on the job needs to know and understand:
Kilowicage	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
	<ul><li>KB6. New media technology including what is good for the web, mobile, tablets</li><li>KB7. How to evaluate the strengths and weaknesses of the hardware, software being used in the production pipeline</li></ul>
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:
	To and the second se
	SA1. Document links, animation videos, artwork etc. that can be used as
	references during the production process
	SA2. Document character profiles and background descriptions, to help present to
	Directors and supervisors, and guide the production process
	Deading Chills
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA3. Interpret the storyboard/animatic correctly and understand the mood of the sequence/shot
	SA4. Research visual and written content to find appropriate references to be used during animation
	SA5. Keep apprised of the trends and work-products that are being produced in the market
	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

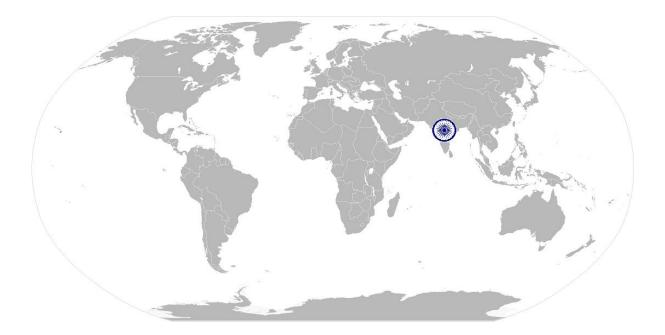




**Conceptualise Creative Ideas for Production** 

# **NOS Version Control**

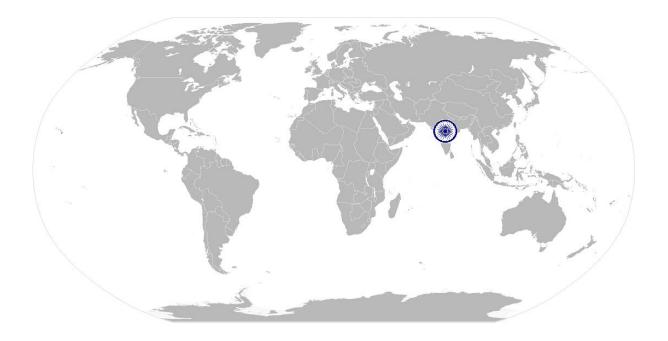
NOS Code	MES/ N 0702		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	01
Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13





**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

MES/ N 0703

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	This unit/task covers the following: Understand the software tool(s) to be used for production, including: • 2D animation • Toon boom Harmony • Adobe Flash • Hand-drawing • 3D animation • Autodesk Maya • XSI • Motion builder • 3D studio max • Blender • Custom and in-house tools Understand and follow the work plan including: • Production schedule • Workflow • Deliverables including • Timelines • Department wise output targets • Technical specifications for the show
Performance Criteria	(PC) w.r.t. the Scope

Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
	PC1. Stay apprised of the various types of software tools available for production in the market
	PC2. Evaluate timelines for production in accordance to the production schedule (supervisor)
	PC3. Read, follow and update the production workflow/schedule, deliverables and timelines with the Director, Art Director and Supervisors
	PC4. Research and Suggest the best tool for the show

## NOS National Occupational Standards



### Plan Tools and Workflow

Knowledge and Unders	standing (K)
A. Organizational Context	The user/individual on the job needs to know and understand:
(Knowledge of the	KA1. The production process followed by the organization
	KA2. The production team and their individual roles and capabilities
company /	KA3. The standards for quality set by the organization
organization and	KA4. The production process and creative brief
its processes)	
B. Technical Knowledge	The user/individual on the job needs to know and understand:
	KB1. The software tools and equipment available in-house and/or through third- party providers
	KB2. The nuances of various tools and how to suggest the best tool suitable for the production
	KB3. Traditional drawing tools and techniques
	KB4. How to plan a shot-break-up
	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)
	KB6. How to estimate the expected effort, expected time for production and
	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)

#### MES/ N 0703

# National Occupational Standards



### Plan Tools and Workflow

	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		
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 the risks, issues and challenges that might arise during the		
	production environment and plan accordingly		



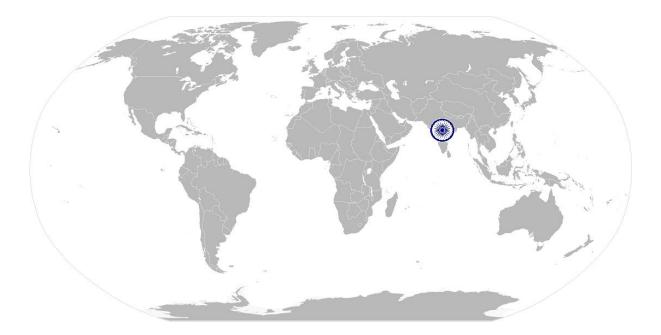


Plan Tools and Workflow

MES/ N 0703

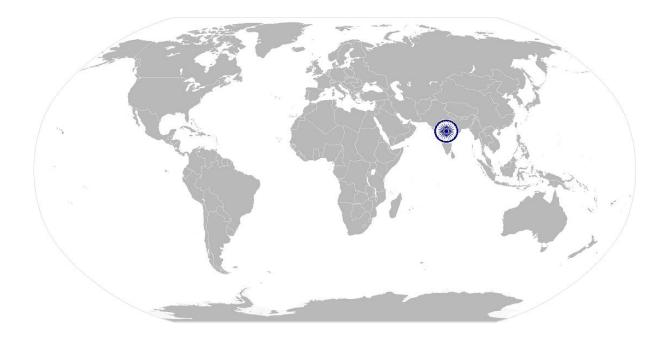
# **NOS Version Control**

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Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13





# National Occupational Standard



## **Overview**

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





MES/ N 0704

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 that would create an illusion of movement once played back in a sequential manner.
Scope	This unit/task covers the following:
	Preparation of a prototype 2D work product/pre-visualisation for review
	Preparation of the following 2D animation end-products: • Film
	Television series
	Advertisement
	Education content
	Work-products for the Internet
	Promotional material/Corporate presentations
	Game art
	Augmented reality
	Industry specific content such as Scientific Animation, Legal, Architecture etc.
	Application of the following 2D animation techniques:
	Cell Animation or Classic Hand drawn animation
	Cut out animation
	Limited Animation
	Usage of 2D animation tools such as:
	Toon Boom Harmony
	• Flash
	Open source software
Performance Crite	eria (PC) w.r.t. the Scope
Element	Performance Criteria
	To be competent, the user/individual on the job must be able to:
	PC1. Apply principles of design, 2D animation and film-making to create sequences and scenes/shots
	PC2. Apply varied techniques and styles based on the requirement
	PC3. Follow the storyboard for composition i.e. positioning of the character with
	respect to the background and camera to create the desired animation
	PC4. Draw/source key frame drawings to establish a reference point for strong
	poses

PC5. Use graphics and animation software to produce in-between poses for animation

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National Occupational Standards





	PC6.	Create shadows for animation using pre-defined lighting keys
		Incorporate audio/music assets
		Bring assets together to produce sequences and scenes/shots as per
		requirements and ensuring continuity
	PC9.	Ensure that the hook-up/transition from one scene to another is done
		properly
	PC10.	How to work with layers and get a good perspective view
	PC11.	Ensure that the work-products meet quality standards (so that they can be
		approved with minimum iterations) and are delivered within the requisite
		timelines
	PC12.	Organise, store and manage work-products into file formats using standard
		file naming conventions and maintain assets for further use
	PC13.	How to achieve the required output targets
	PC14.	Train junior animators to improve their quality ability to deliver within given
		timelines
	PC15.	Work effectively within the team and with other departments, namely,
		assets, lighting and effects
	PC16.	Critically review animation produced, keeping in mind the creative and design
	, <b>*</b>	specifications and producer brief
	7PC17.	Refine the output based on deviations observed and/or modifications
		required within requisite timelines
Knowledge and Unders	standing (	(κ)
A. Organizational	The use	r/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
		Producer with respect to the process, techniques to be used and guidelines
organization and		with respect to characters and look and feel of the end-product
its processes)	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 use	r/individual on the job needs to know and understand:
Knowledge	KD4	The first second state of the first state of Astronomics and film second to a
	KB1.	The fundamentals and principles of Animation and film-making
		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,
	KDC	Harmony and understand their specifics
	KB6.	Design standards and specifications that needs to be complied with to
	KB7.	produce the final output The interaction between various characters in a given scene and bring out
	KD7.	The interaction between various characters in a given scene and bring out that dynamic in the animation
		that dynamic in the animation







	KB8. Applicable health and safety guidelines			
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			
	Oral Communication (Listening and Speaking skills)			
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA4. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA5. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots</li> <li>SA6. Understand the modifications required from the Director, Animation supervisor and Producer</li> <li>SA7. Discuss the challenges faced during production and discuss ways to addres</li> <li>SA8. such challenges in future projects</li> </ul>			
B. 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			
	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>SB2. Understand shot break up and plan effort and time required for each elem of the shot</li> <li>SB3. How to plan and prioritise individual timelines and deliver on schedule</li> <li>SB4. Work effectively as a member of the team and help realise overall timeline</li> <li>SB5. Prioritise work-products and tasks based on requirements</li> </ul>			
	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			

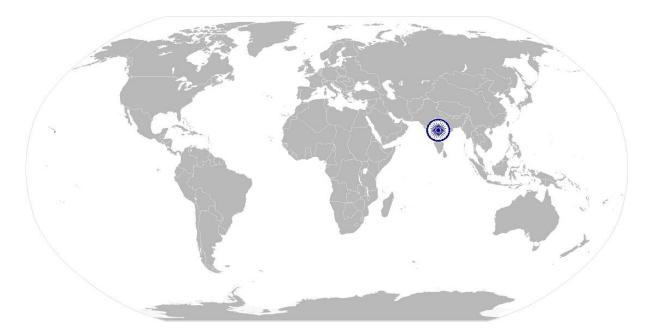




MES/ N 0704

# **NOS Version Control**

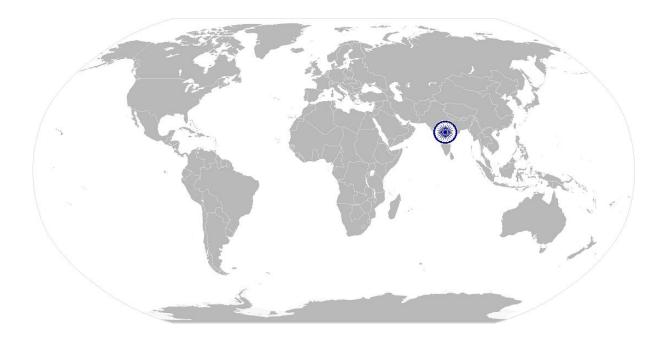
NOS Code	MES/ N 0704		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	01
Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13







# National Occupational Standard



## **Overview**

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





MES/ N 0705

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	This unit/task covers the following:
	Preparation of a prototype work product/pre-visualisation for review
	Preparation of the following 3D animation end-products: <ul> <li>Film</li> </ul>
	Television series
	Advertisement
	Education content
	Work-products for the Internet
	Promotional material/Corporate presentations
	<ul> <li>Game art</li> <li>Augmented reality</li> </ul>
	<ul> <li>Industry specific content such as Scientific Animation, Legal, Architecture etc.</li> </ul>
	Application of the following 3D animation techniques:
	Realistic 3D Animation (Motion capture + Key frame animation) e.g. in movies     such as Resumption Austan and Callume
	<ul> <li>such as Beowulf, Avatar and Gollum</li> <li>Semi-realistic e.g. in movies such as Little Krishna and Brave</li> </ul>
	<ul> <li>Toon animation e.g. Kung-fu Panda</li> </ul>
	<ul> <li>Simulation of traditional &amp; stop motion techniques e.g. advertisements such</li> </ul>
	as vineta cucini, amaron battery etc.
	Usage of 3D animation tools such as:
	Autodesk Maya
	• XSI
	3D studio max
	Blender
	Motion Capture tools like marker tracking cameras and Inertial suits



### **Produce 3D Animation**

Performance Criteria (PC) w.r.t. the Scope			
Element	Performance Criteria		
	<ul> <li>To be competent, the user/individual on the job must be able to:</li> <li>PC1. Apply principles of design, 3D animation and film-making to create sequences and scenes/shots</li> <li>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</li> <li>PC3. Animate expressions and lip movements to match dialogues and sound</li> <li>PC4. Communicate requirements to camera and lighting for motion capture, where required</li> <li>PC5. Work with motion capture data received from the motion/ performance capture studio (clean up the data and map animation data to 3D models)</li> <li>PC6. Produce 3D movements and performance required using 3D animation software within the agreed timelines</li> <li>PC7. Refine the product until the required creative effect is achieved</li> <li>PC8. Organise, store and manage work-products into file formats using standard file naming conventions and maintain assets for further use</li> <li>PC9. Work effectively within the team and with other departments, namely, design, modeling/rigging, texturing, editing, rendering and compositing</li> <li>PC10. Critically review animation produced keeping in mind the creative and design specifications and producer brief</li> <li>PC11. Refine the output based on deviations observed and/or modifications required within requisite timelines</li> </ul>		
Knowledge and Unders	tanding (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 objective/purpose that the end-product intends to achieve</li> <li>KA2. The profile of the target audience for the end-product</li> <li>KA3. Responsibilities and scope of work expected from the animator</li> <li>KA4. The expectations of the Client, Director, Animation Supervisor and the Producer with respect to the process, techniques to be used and guidelines with respect to characters and look and feel of the end-product</li> <li>KA5. Limitations on the effort, duration, schedule and resources and issues that might arise during production</li> <li>KA6. The production requirements and quality that needs to be reflected in the final output</li> <li>KA7. The timelines within which the product needs to be delivered</li> <li>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 &amp; Rendering, Sfx and Compositing</li> <li>KA9. Applicable health and safety guidelines</li> </ul>		

## National Occupational Standards





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

B. Technical	The user/individual on the job needs to know and understand:		
Knowledge			
	KB1. Basic/advanced scripting		
	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		
Skills (S) ( <u>Optional</u> )			
A. Core Skills/	Writing Skills		
A. Core Skills/	Writing Skills		
A. Core Skills/ Generic Skills	Writing Skills         The user/individual on the job needs to know and understand how to:		
-	The user/individual on the job needs to know and understand how to:		
-			
-	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		
-	The user/individual on the job needs to know and understand how to:		
	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		
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-	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		
	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		
	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		
-	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		
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	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		
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-	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 supervisor SA6. Communicate clearly and collaborate effectively with colleagues who are		
-	The user/individual on the job needs to know and understand how to:SA1. Report output, efforts and schedule taken to complete the allotted taskReading SkillsThe user/individual on the job needs to know and understand how to:SA2. Read and understand the script and character descriptionsSA3. Read the work plan and production schedule to ensure that progress is in lineSA4. Read and understand the short division, character identification and frames planned during motion / performance captureOral 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 supervisor SA6. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots		
	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 supervisor         SA6. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots         SA7. Understand the modifications required from the Director, Animation		
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA1. Report output, efforts and schedule taken to complete the allotted task</li> <li>Reading Skills</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA2. Read and understand the script and character descriptions</li> <li>SA3. Read the work plan and production schedule to ensure that progress is in line</li> <li>SA4. Read and understand the short division, character identification and frames planned during motion / performance capture</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA5. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA6. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots</li> <li>SA7. Understand the modifications required from the Director, Animation supervisor and Producer</li> </ul>		
	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 supervisor         SA6. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots         SA7. Understand the modifications required from the Director, Animation		

National Occupational Standards



## **Produce 3D Animation**

#### MES/ N 0705

B. Professional Skills	Plan and Organize			
	<ul> <li>The user/individual on the job needs to know and understand how to:</li> <li>SB1. How to plan individual timelines and deliver on schedule</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> <li>SB4. Understand shot break up and plan effort and time required for each element of the shot</li> </ul>			
	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 and Supervisors,			
	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			



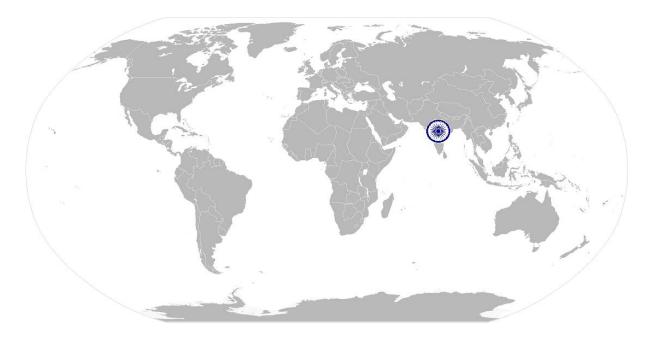




MES/ N 0705

# **NOS Version Control**

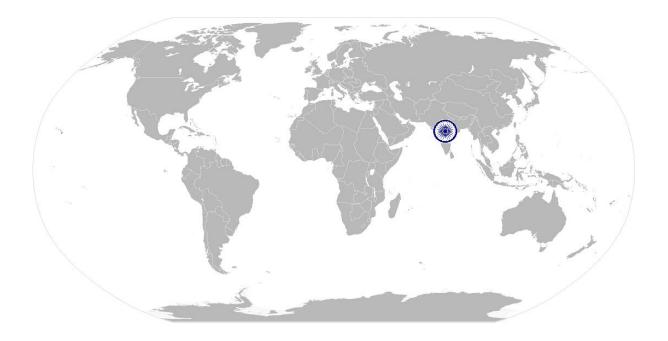
NOS Code	MES/ N 0705		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	01
Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13





**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	This unit/task covers the following:		
	Preparation of a prototype work product/pre-visualisation for review		
	Preparation of the following stop motion animation end-products: <ul> <li>Film</li> </ul>		
	Television series		
	Advertisement		
	Education content		
	<ul> <li>Application of the following stop motion animation techniques:</li> <li>Traditional frame-by-frame capture</li> <li>Claymation</li> <li>Cut-out</li> <li>Using Computer-generated tools </li> </ul>		
Performance Criteria (F	PC) w.r.t. the Scope		
Element	Performance Criteria		
	To be competent, the user/individual on the job must be able to:		
	PC1. Understand requirements including the way the characters will		
	act/move in accordance to the storyboard		
	PC2. Move characters and Construct/compose a shot in accordance to the script and storyboard		
	PC3. Animate stop motion characters (puppets or models) in accordance to the		
	script and directors instructions		
	PC4. Contribute creative ideas during the animation process		
Knowledge and Unders	standing (K)		
B. Organizational Context	The user/individual on the job needs to know and understand:		
(Knowledge of the company / organization and its processes)	<ul> <li>KA1. The objective/purpose that the end-product intends to achieve</li> <li>KA2. The profile of the target audience for the end-product</li> <li>KA3. Responsibilities and scope of work for various departments</li> <li>KA4. The expectations of the Director, Animation Supervisor and the Producer with respect to the process, techniques to be used and guidelines with respect to</li> </ul>		

characters and look and feel of the end-product





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

	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
	<ul><li>KB3. Principles of movement and timing</li><li>KB4. How to develop/portray the character in accordance to the script</li></ul>
	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) ( <u>Optional</u> )	
C. Core Skills/	Reading Skills
Generic Skills	The user/individual on the job needs to know and understand how to:
Generic Skills	
Generic Skills	SA1. Read and understand the script and character descriptions
Generic Skills	
Generic Skills	SA1. Read and understand the script and character descriptions
Generic Skills	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)
Generic Skills	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> </ul>
Generic Skills	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Suggest creative ideas to the Director and Animation supervisor</li> </ul>
Generic Skills	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA4. Communicate clearly and collaborate effectively with colleagues who are</li> </ul>
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D. Professional Skills	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA4. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots</li> <li>SA5. Understand the modifications required from the Director, Animation supervisor and Producer</li> <li>SA6. Discuss the challenges faced during production and discuss ways to address</li> </ul>
	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA4. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots</li> <li>SA5. Understand the modifications required from the Director, Animation supervisor and Producer</li> <li>SA6. Discuss the challenges faced during production and discuss ways to address such challenges in future projects</li> <li>Plan and Organize</li> <li>The user/individual on the job needs to know and understand how to:</li> </ul>
	<ul> <li>SA1. Read and understand the script and character descriptions</li> <li>SA2. Read the work plan and production schedule to ensure that progress is in line</li> <li>Oral Communication (Listening and Speaking skills)</li> <li>The user/individual on the job needs to know and understand how to:</li> <li>SA3. Suggest creative ideas to the Director and Animation supervisor</li> <li>SA4. Communicate clearly and collaborate effectively with colleagues who are working with the previous or next scenes/shots</li> <li>SA5. Understand the modifications required from the Director, Animation supervisor and Producer</li> <li>SA6. Discuss the challenges faced during production and discuss ways to address such challenges in future projects</li> </ul>

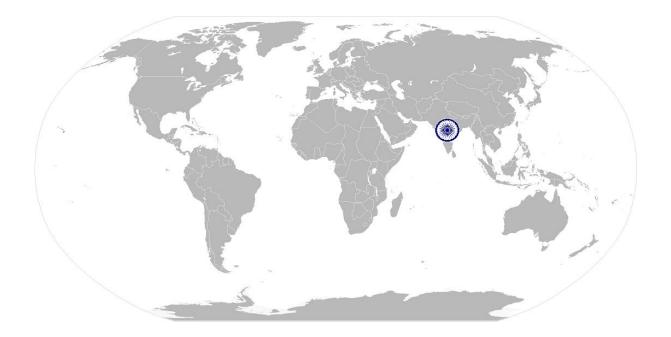
# National Occupational Standards





**Produce Stop Motion Animation** 

	SB3. Prioritise work-products and tasks based on requirements
F	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
0	Critical Thinking
1	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



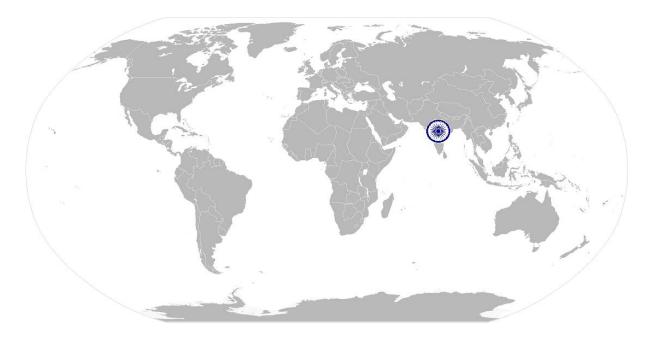




**Produce Stop Motion Animation** 

# **NOS Version Control**

NOS Code	MES/ N 0706		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	01
Industry	Media and Entertainment	Drafted on	16/07/13
Industry Sub-sector	Animation, Gaming	Last reviewed on	30/07/13
		Next review date	08/08/13



SSC	QPCode	Name of the QP	NSQF Level	Equipment Name	Min. no. of Equipment required (per batch of 30 trainees)	Unit Type	ls this a mandatory Equipment at the Training Center (Yes/No)	Dimension/Specification/Description of the Equipment/ ANY OTHER REMARK
Media & Entertainment	MES/Q0 701	Animator	4	High End Graphics Computer With Single Monitor	15		Yes	HP/Dell /lenovo/Assembled
Media & Entertainment	MES/Q0 701	Animator	4	2D Animation Light Box	15		Yes	
Media & Entertainment	MES/Q0 701	Animator	4	Ups	1		Yes	15 KVA UPS
Media & Entertainment	MES/Q0 701	Animator	4	Headphones	15		Yes	Multimedia headphones
Media & Entertainment	MES/Q0 701	Animator	4	2.1 Multimedia Speakers	1		Yes	
Media & Entertainment	MES/Q0 701	Animator	4	Autodesk Maya/Max Student Version Software	1		Yes	
Media & Entertainment	MES/Q0 701	Animator	4	Cyber Shot Camera	1		Yes	10 Megapixels Camera with HD Recording
Media & Entertainment	MES/Q0 701	Animator	4	Web Camera	1		Yes	