

NSQF QUALIFICATION FILE

Version 6: Draft of 08 March 2016

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

**Office of Development Commissioner
Ministry of Micro, Small and Medium Enterprises
UdyogBhawan,
Rafi Marg,
New Delhi - 110011**

Name and contact details of individual dealing with the submission

Name : Mr. S. V. Rasal
Position in the Organization : Managing Director
Address if different from above Institute for Design of Electrical Measuring Instruments,
Mumbai
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List of documents submitted in support of the Qualifications File

1. Curriculum
2. MESK Skill Gap Study
3. Industrial Validation

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SUMMARY

| | |
|---|---|
| Qualification Title | 3D Animation & Special Effects |
| Qualification Code | MSME/ANI/05 |
| Nature and purpose of the qualification | <p>Nature:Certificate course of 3D Animation & Special Effects,</p> <p>Purpose:Learnerswho attain this qualificationare competent in 3D animation or visual effects artists and can get a job in Photo studio, advertising/media company or become an entrepreneur.</p> <ul style="list-style-type: none"> • Qualifying learners attain skills to work in post production,design sound, capture motion, visualise in 3Dspace • Qualified learners are capable of animating characters, modelling objects and characters, texturing and lighting objects, characters and backgrounds, drawing characters and objects, storyboarding scripts, managing own projects, compositing layers, managing electronic files, rigging models, rendering files, formats and outputting, designing backgrounds, assessing contracts and marketing their own 3D animation and visual effects capabilities. |
| Body/bodies which will award the qualification | Ministry of Micro, Small and Medium Enterprises, New Delhi (Certificate Awarded by IDEMI, Mumbai) |
| Body which will accredit providers to offer courses leading to the qualification | Ministry of Micro, Small and Medium Enterprises, New Delhi (MSME-TCs in respective Extension Centre) |
| Body/bodies which will carry out assessment of learners | Examination Cell of Institute for Design of Electrical Measuring Instruments, Mumbai |
| Occupation(s) to which the qualification gives access | 3D Animators or VFX Compositor |
| Licensing requirements | Not Applicable |
| Level of the qualification in the NSQF | 4 |
| Anticipated volume of training/learning required to complete the qualification | 500 hours |
| Entry requirements and/or recommendations | Preferably 10 th Passed |
| Progression from the qualification | <p>Job Progression:</p> <p>After completion of course andafter 2 years of field experience the trainee can work as a Senior 3D Animator and after that 3 years of experience, the person can work as a Lead Animator.</p> |

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| | Education progression: B.Voc.(Multimedia and Animation)programme is a next stage of progression in education to the trainee. | | |
| Planned arrangements for the Recognition of Prior learning (RPL) | Yes | | |
| International comparability where known | The South African Qualification Authority approved qualification 3D Animation and Visual Effects. (STAATSKOERANT, 18 AUGUSTUS 2006 No. 29128)(Level 5) (http://regqs.saqo.org.za/viewQualification.php?id=57607) | | |
| Date of planned review of the qualification. | 01/2018 | | |
| Formal structure of the qualification | | | |
| 3D Animation & Special Effects | Mandatory/ Optional | Estimated size (learning hours) | Level |
| Introduction to Computers and Internet Navigation | Mandatory | 25 Hrs | 3 |
| Communication at Workplace | Mandatory | 25 Hrs | 4 |
| Digital Film Making | Mandatory | 100 Hrs | 4 |
| Basics of Video and Sound Editing | Mandatory | 100 Hrs | 3 |
| Basic Compositing | Mandatory | 100 Hrs | 4 |
| 3D Animation | Mandatory | 100 Hrs | 4 |
| Admission and Examination | Mandatory | 50 Hrs | |
| Total | | 500 Hrs | |

SECTION 1 ASSESSMENT

Body/Bodies which will carry out assessment:

Assessment for the 3D Animation and Special Effect is conducted in Examination Cell of IDEMI, Mumbai

Will the assessment body be responsible for RPL assessment?

YES. Learners who have met the requirements of any Unit Standard that forms part of this qualification may apply for recognition of prior learning to the relevant Education body. The applicant must be assessed against the specific outcomes and with the assessment criteria for the relevant Unit Standards.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

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1. ASSESSMENT GUIDELINE:

- Criteria for assessment based on each learning outcomes, will be assigned marks proportional to its importance.
- The assessment for the theory & practical part is based on knowledge bank of questions created by trainers and approved by Examination cell (IDMI Mumbai)
- For each Individual batch, Examination cell will create unique question papers for theory part as well as practical for each candidate at each examination.
- To pass the Qualification, every trainee should score a minimum of 75% cumulatively (Theory and Practical)
- Assessment comprises the following components:

>Job carried out in labs/workshop

>Record book/ daily diary

>Answer sheet of assessment

>Viva -voce

>Progress chart

>Attendance and punctuality

2. ASSESSORS:

IDEMI faculty teaching the 3D animation and Special Effect course, also assesses the students as per guidelines set by Examination cell of IDEMI. Faculties are been trained from time to time to upgrade their skills on various aspects such as conduction of assessments, teaching methodology etc. These training are usually conducted at IIT Bombay, K. J. Somaiya Institute, and other tool rooms in the country.

3. ELIGIBILITY TO APPEAR IN THE EXAM:

Minimum 75% attendance is compulsory for the students to appear for the assessments.

4. MARKING SCHEME:

| Sr. No. | Method of Assessments | Weightage (Max. marks) | Evaluator |
|--------------|-----------------------|------------------------|--|
| 1 | Written test | 30 | Trainer + Moderator (Head of Animation)+ Examiner nominated by Examination cell (IDEMI) |
| 2 | Practical test | 30 | |
| 3 | Oral test/viva voce | 10 | |
| 4 | Portfolio | 10 | |
| 5 | Project | 10 | |
| 6 | Direct Observation | 10 | |
| Total | | 100 | |

5. PASSING MARKS:

Passing criteria is based on marks obtain in attendance record, term works , assignments, practical's performance, viva or oral exam, module test, practical exam and final exam

Minimum Marks to pass practical exam – 70%

Minimum Marks to pass final exam – 70%

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Minimum Marks to pass viva / oral exam – 70%

Minimum Marks to pass Project report and presentation exam – 90%

6. RESULTS AND CERTIFICATION:

The assessment results are backed by evidences collected by assessors. Successful trainees are awarded the certificates by IDEMI.

ASSESSMENT EVIDENCE

Assessment evidence comprises the following components document in the form of records:

- 1) Job carried out in labs/workshop
- 2) Record book/ daily diary
- 3) Answer sheet of assessment
- 4) Viva -voce
- 5) Progress chart
- 6) Attendance and punctuality

Title of Component: 3D Animation and Special Effects

| Sr. No. | Outcomes to be assessed | Assessment criteria for the outcome |
|---------|--|--|
| 1 | Demonstrate the use of computer peripherals and Manage files and folders | The candidate should able to; 1.1 Describe the parts of a computer system 1.2 Describe the use of different types of software 1.3 Differentiate between primary and secondary memory 1.4 Differentiate between system software and application software 1.5 Distinguish between common I/O ports and connectors 1.6 Identify hardware components of computer 1.7 Connect various parts and devices of computer system. 1.8 Start and shut down a computer system 1.9 Describe the purpose of files and folders 1.10 Describe the procedure for locating files and folders on the drive 1.11 Create a file and folder. 1.12 Locate and rename a folder and file 1.13. Delete a file or folder, COPY-PASTE file and folder, CUT-PASTE file and folder |
| 2 | Demonstrate the use of Internet, surfing and social networking sites | The candidate should able to; 2.1 Describe purpose of internet, world wide web 2.2 Explain the terms – Internet Service Provider, Uniform Resource Locator, Hyperlink, etc. 2.3 Name different web browsers 2.4 Describe the risks associated with the online activity like: unintentional disclosure of personal information, 2.5 Demonstrate how to connect to internet |

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| | | <p>2.6 Open and close web browsing application</p> <p>2.7 Enter the URL in the addressbar</p> <p>2.8 Search documents using search engines</p> <p>2.9 Navigate forward and backward between previously visited web pages</p> |
| 3 | Demonstrate the use of Email | <p>The candidate should able to;</p> <p>3.1 Describe the purpose of email</p> <p>3.2 Explain the structure of email address</p> <p>3.3 Describe the various features of email and their uses</p> <p>3.4 Describe the advantages of using email, like speed of delivery, low cost, facility for attachment of documents, spell check facility, etc.</p> <p>3.5 Describe the difference between the To, CC, BCC fields.</p> <p>3.6 Describe the procedure of sending, forwarding and searching emails</p> <p>3.7 Discuss the best practices to be adopted while using email</p> <p>3.8 Create an email account, Compose an email, Insert and remove a file attachment</p> <p>3.9 Open the Sent box to see the, emails sent, Add signatures, Prepare and save a draft, message in Drafts folder</p> <p>3.10 Manage an email account by moving emails into folders/labels, Manage email account by deleting unwanted messages from inbox and trash folder</p> |
| 4 | Identify elements of communication cycle and Provide feedback | <p>The candidate should able to;</p> <p>4.1 Describe the meaning of communication</p> <p>4.2 State the different elements of communication cycle</p> <p>4.3 Identify elements of communication cycle, Draw a diagram of communication cycle</p> <p>4.4 Differentiate between Sender, Message, Medium, Receiver and Feedback.</p> <p>4.5 Describe the importance of active listening</p> <p>4.6 Describe the meaning of feedback</p> <p>4.7 Describe the importance of feedback</p> <p>4.8 Describe the characteristics of feedback</p> <p>4.9 Differentiate between descriptive and specific feedback</p> |
| 5 | Overcome barriers in Communication, Apply principles of communication | <p>5.1 Describe the factors that act as communication barrier</p> <p>5.2 Describe the ways to overcome barriers in effective Communication</p> <p>5.3 Describe the various principles of effective communication</p> |

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| 6 | Understanding the software tools to be used for production | <p>The candidate able to;</p> <p>6.1 Describe the various types of software tools available for production in the market including: 2D animation: Toon Boom Harmony, Adobe Flash, Hand-drawing 3D animation: Autodesk Maya, XSI, Motion Builder, 3D Studio Max, Blender</p> <p>6.2 Other custom and in-house tools for the production</p> |
| 7 | Selecting the animation technique(s) to be used | <p>The candidate should able to</p> <p>7.1. Identify an appropriate animation technique based on the output required 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)) 3D Animation: Realistic 3D animation- motion capture + key frame animation (e.g. in films such as Beowulf, Avatar and Lord of the Rings' Gollum)</p> <p>7.2 Identify and demonstrate use of Semi-realistic 3D animation (e.g. films like little Krishna and Brave) Toon 3D animation (e.g. films such as Kung-fu Panda) Simulation of traditional & stop motion techniques (e.g. advertisements such as VinetaCucini, Amaron Battery etc.) Stop-motion animation Others including VFX, stereo conversion</p> |
| 8 | Use adobe premiere pro, Edit the video | <p>The Candidate should able to;</p> <p>8.1 Explain the concept of workspaces with examples 8.2 Describe video and sound editing projects and its Creation 8.3 Demonstrate the use of toolbox of Adobe premiere pro 8.4 Describe video editing workflow 8.5 Describe timeline panel, Explain basic standards followed in editing a video, Describe clips and its types 8.6 Demonstrate how to edit the video</p> |
| 9 | Use Adobe sound booth, Edit the sound | <p>The Candidate should able to;</p> <p>9.1 Describe the procedure of increasing or decreasing the amplitude of a range by using the volume pop-up menu 9.2 Demonstrate the ability to use simple features of Adobe sound booth 9.3 Give demo of editing the beginning or end of an audio track 9.4 Explain various ways of editing audio track 9.5 Demonstrate how to increase or decrease the length of the range by clicking and dragging the start and end points of the audio track 9.6 Demonstrate how to edit the sound track</p> |

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| 10 | Demonstrate how to create Compositions, Use Adobe after effects and Demonstrate the knowledge of compositing | <p>The Candidate should able to;</p> <p>10.1 Explain the basic standards followed in compositions</p> <p>10.2 Explain minimum requirements for compositing images through:</p> <ul style="list-style-type: none"> • Physical composition • Multiple Exposure • Background projection • Matting <p>10.3 Composite the image using following techniques:</p> <ul style="list-style-type: none"> • Physical composition • Multiple Exposure • Background projection • Matting <p>10.4 Explain Work spaces and its types</p> <p>10.5 Explain the concept and use of various tools of tool box</p> <p>10.6 Demonstrate how to create and arrange layers in a composition</p> <p>10.7 Demonstrate the knowledge of compositing</p> <p>10.8 Demonstrate working with effects through Effect Controls Panel</p> |
| 11 | Describe the Pre production activities | <p>The Candidate should able to;</p> <p>11.1 Demonstrate how to perform pre-production activities</p> <p>11.2 Prepare a flow chart of preproduction activities and Required materials/equipments</p> |
| 12 | Describe the concept of Texturing and Modelling (Production 1) and Lighting and Rigging (Production 2) | <p>The Candidate should able to;</p> <p>12.1 Create model for stop motion 3D animation</p> <p>12.2 Texture a character</p> <p>12.3 Demonstrate the concept of Lighting and Rigging</p> <p>12.4 Demonstrate the use of concept of lighting to create a bright image</p> |
| 13 | Describe the postproduction activities | <p>The Candidate should able to;</p> <p>13.1 Describe the postproduction process of animation</p> <p>13.2 Explain Exporting and Rendering</p> <p>13.3 Demonstrate how to perform post-production activities</p> <p>13.4 Prepare a flow chart of postproduction activities and required materials/equipments</p> |
| 14 | Gathering visual references to serve as aids during the animation process | <p>The Candidate should able to;</p> <p>14.1 Search and identify find character references that aid and inspire designs, including:</p> <p>Previously executed animation work-products</p> <p>Animations products available in the public domain</p> <p>Artwork and other human, animal and creature behavioral videos</p> |

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| 15 | Conceptualising creative ideas for animation | <p>The Candidate should able to;</p> <p>15.1 Generate creative concepts and ideas for production using the concept artwork prepared by the designers, including: Character’s look, colors, dressing, attitude and behavior Character expressions, emotions, poses Character movement (e.g. walk, run, jump) and timing (body mechanics) Costume designs Color, lighting concepts and shadow placement Environment</p> <p>15.2 Present and discuss concepts with the Director, Art Director or Supervisors</p> <p>15.3 Agree on the style of the work-product that would most appeal to the target audience, taking into account production timelines and requirements</p> |
| 16 | Preparing a prototype 2D workproduct/pre-visualisation | <p>The Candidate should able to;</p> <p>16.1 Demonstrate the use of 2D tool for the storyboard composition (eg: positioning of the character with respect to the background/camera to create the desired animation)</p> <p>16.2 Draw/source key frame drawings to establish reference points for poses</p> |
| 17 | Preparing 2D animation end products | <p>The Candidate should able to;</p> <p>17.1 demonstrate the 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</p> <p>17.2 Incorporate audio/music assets</p> <p>17.3 Create shadows for animation using pre-defined lighting keys</p> <p>17.4 Demonstrate the tool use for bring assets together to produce sequences and scenes/shots as per requirements and ensuring continuity</p> <p>17.5 Create the hook-up/transition from one scene to another is effective</p> |
| 18 | Preparing a prototype 3D work product/pre-visualisation | <p>The Candidate should able to;</p> <p>18.1 demonstrate the 3D tool for the storyboard for composition (eg: positioning of the character with respect to the background/camera to create the desired animation)</p> <p>18.2 Prepare prototype work product/pre-visualisation</p> |
| 19 | Preparing stop motion animation end-products | <p>The Candidate should able to;</p> <p>19.1 Move characters and construct/compose a shot as per the storyboard</p> <p>19.2 Animate stop motion characters (puppets or models) in accordance with the script and any feedback from the Director/Producer/Supervisor</p> |

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| 20 | Applying stop-motion animation techniques | The Candidate should able to; 20.1Apply stop motion animation techniques including: Traditional frame-by-frame capture,Claymation, Cut-out using computer-generated tools |
| 21 | Reviewing, refining and storing end products | The Candidate should able to; 21.1 Explain and demonstrate the critically review animation produced, keeping in mind creative and design specifications and the production brief 21.2 Refine the output based on deviations observed and/or modifications required within requisite timelines Ensure that work-products meet quality standards (so that they can be approved with minimum iterations) and are delivered in requisite timelines 21.3 Organize, store and manage work-products into file formats using standard file naming conventions and maintain assets for further |
| <p>Means of assessment 1 and 2 Skill performance is assess by conducting</p> <ul style="list-style-type: none"> i) Assignment for each module ii) Written test for each module iii) Final exam after completion of all module iv) Practical exam for each module v) Final practical exam after completion of all module vi) Viva / Oral Exam vii) Project report and presentation | | |
| <p>Pass/Fail Passing criteria is based on marks obtain in attendance record, term works , assignments, practical's performance, viva or oral exam, module test, practical exam and final exam</p> <ul style="list-style-type: none"> i) Minimum Marks to pass practical exam – 70% ii) Minimum Marks to pass final exam – 70% iii) Minimum Marks to pass viva / oral exam –70% iv) Minimum Marks to pass Project report and presentation exam – 90% | | |

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SECTION 2

EVIDENCE OF LEVEL

Option A

| Title/Name of qualification/component: 3D Animation and Special EffectsLevel:4 | | | |
|--|--|--|------------|
| NSQF Domain | Outcomes of the Qualification/Component | How the job role relates to the NSQF level descriptors | NSQF Level |
| Process | Manage electronic files and data safely, securely and according to specified requirements. | Job holder is expected to understand the script brief and requirements for post-production by application of basic creative principles and processes for Post Production by interpreting Knowledge of Editing Considering the core skills, computergenerated effects, colour grading, digital intermediate, screen conversion, rendering, rotoscoping, keying, matchmoving, compositing character properties to this outcome is pegged at Level 4. | 4 |
| Professional knowledge | <ul style="list-style-type: none"> Job holder Analyse requirements for 3D animation processes based on given specifications and existing referencematerial. Explain and Demonstrate Professional Knowledge include storyboarding, modelling, animation, rigging models, shading, mappingimages, lighting, rendering files, compositing layers, outputting, and designing backgrounds | Job holder's needs to have an understanding of basic editing principles and knowledge about the usage of the software such as adobe and photoshop, application of the audio and video effects. Job holders have factual knowledge of field of study which is editing. Therefore this is pegged at level 4. | 4 |
| Professional skill | <ul style="list-style-type: none"> Develop creative elements according to specification using existing digital data. | Job holder is engaged in tasks such as computer generated effects, colour grading, digital intermediate, screen conversion, rendering, rotoscoping, keying, matchmoving, compositing Preparing materials and equipment for the post production process, | 4 |

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| | <ul style="list-style-type: none"> Develop digital data can include photographic images, pictures, sound, etc. | Collect raw footage/material and select relevant material that can be used for postproduction Needs to Create realistic effects through the use of software, he is responsible for carrying out his/her job. These activities are routine in nature with narrow range of application. Hence this is pegged at level 4. | |
| Core skill | <ul style="list-style-type: none"> Evaluate 3D animation and visual effects against specified requirements Manage 3D animation production according to specified requirements. | The jobholder is needs to have Generic Skills of writing, Oral and Communication Skills related to their day to day animation work. Jobholder needs document postproduction requirements as a draft of assignment given by supervisor. Understand the project requirements/client requirement which requires clarity in oral and the written skills and while working on the content he needs to be aware of the social, political and natural environment. Therefore it is pegged at level 4. | 4 |
| Responsibility | <ul style="list-style-type: none"> Check-up procedures to ensure that project objectives are finished within specified time frames are developed. Checkup proceduresto ensure that agreed ethicaland legal requirementsare met are drawn. The compliance of 3D animation productswith specified requirementsis ensured. Productscan includemodels, storyboards, 3D animation(includingobjects, characters, shading,lighting, images,and backgrounds),renderedfiles, and rigged models | Job holder is required to carry out functions such as typing; editing audio and video effects using software's such as photoshop, adobe etc. In these activities job holder is doing the tasks independently without any supervision and he is responsible for his own learning at the task. Therefore it is pegged at level 4 | 4 |

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SECTION 3

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

- As per the industrial survey –cum-validation of curriculum, it is found that the animation industries need skilled candidate for 3D animation and Special Effects assignment related to various Entertainment and Media projects. (Industrial validation from various industries is attached as a supporting document).
- Also the trained candidate gets placed in various animation industries in Mumbai as well as in Hyderabad.
- The qualification is in existence since 2009 and IDEMI has trained more than 600 trainees as on date.

What is the estimated uptake of this qualification and what is the basis of this estimate?

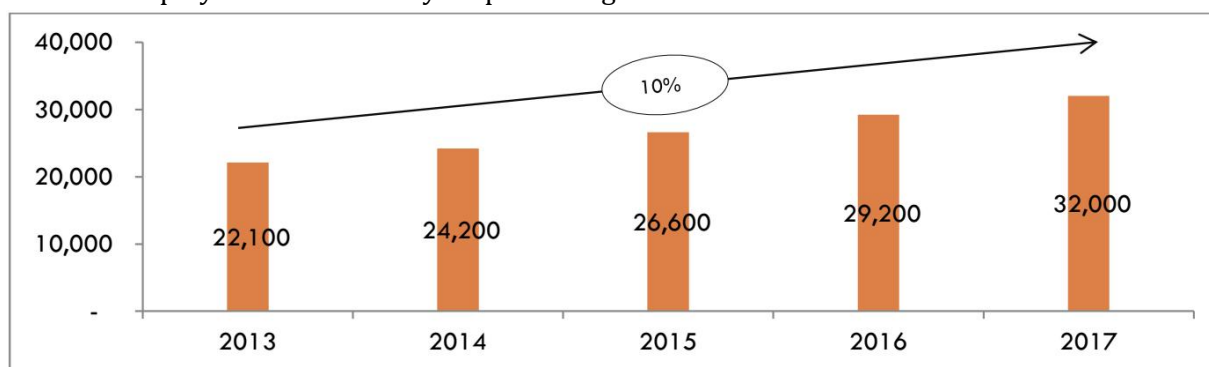
The size of the Animation Industry is estimated at INR 40 billion in 2013 and is expected to grow at a CAGR of 16% to reach **INR 73 billion in 2017**. The animation industry is comprised of animation services' companies and production houses creating content across the following categories: **Feature films , Television series, Advertisements**

The major animation techniques used include: **2D Animation, 3D Animation and Stop Motion**

Animation services companies take up low-end production and post-production work outsourced from studios abroad and domestic companies in India. These companies make up for ~60% of the industry's revenues.

The current employment in the animation industry is ~22,000 individuals, comprising both permanent employment at studios and freelancers.

The total employment over a five year period is given below



What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

The qualification is originally designed by curriculum committee comprising the training head, industrial expert, academic professional experts.

The work group under the guidance of curriculum development committee already conducted desk search as well as refers the qualification packs for as a supporting document for the mapping of curriculum.

As per the search it is found that, the certificate course is not available for the skill development of the candidates in Animation Sector under the Media and Entertainment Sector Skill Council.

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What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated?

The curriculum committee meeting for review will be in the month of Jan 2018 which comprising industrial expert, university professors with subject specialization.

The data used for revision or update will be impact analysis (student and industries) and new subject area opportunities, multiple entry and exits incorporated or RPL strategy implementations.

The curriculum review and updates, in consultation with industries and expert of respective domain, NOS approved by NSDA will also be referred to from time to time.

SECTION 4

EVIDENCE OF RECOGNITION AND PROGRESSION

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Qualifying trainee will obtain an IDEMI Certificate in '3D Animation and Special Effects'. After 2 year of experience give the opportunities to the trainees to work as Senior 3D Animator as a career progression with this position and experience of 3 years gives career scope of Lead 3D Animator. Also he/she can become an entrepreneur in this sector after getting 3 year of experience. The below mention diagrams represent the vertical mobility for the job holder as a job progression in Animation Sector.

As a educational progression the trainee will be able to apply for (as per university entry scheme) B.Voc.(Multimedia and Animation) at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

