

NSQF QUALIFICATION FILE**Approved in 17th NSQC Meeting-NCVET-Dated 31 March 2022****CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE****Name and address of submitting body:**

Media and Entertainment Skill Council

522-524, DLF Tower-A,

Jasola, New Delhi 110025

Name and contact details of individual dealing with the submission**Name:** Mohit Soni**Position in the organisation:** Chief Executive Officer**Address if different from above:****Tel number(s):** 01149048335/ 49048336**E-mail address:** ceo@mescindia.org**List of documents submitted in support of the Qualifications File**

1. Sector Profiling
2. Skill Gap Study
3. Occupational Map
4. Qualification Pack
5. Validation of Occupational Standards by Industry
6. Progression matrix
7. Protocol for Affiliation of Assessment Bodies and Assessment Framework

Model Curriculum to be added which will include the following:

- **Indicative list of tools/equipment to conduct the training**
- **Trainers qualification**
- **Lesson Plan**
- **Distribution of training duration into theory/practical/OJT component**

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SUMMARY

1	Qualification Title	3D Printing Operator
2	Qualification Code, if any	MES/Q0511
3	NCO code and occupation	NCO-2015/2141.2400; Printing
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Nature of qualification is based on the industry requirement and the main purpose of the qualification to get unemployed people into work, upgrade the skills of people already in work to allow people in particular sectors, to learn new skills to deal with technological change, to give people with vocational/professional skills access to higher education courses.
5	Body/bodies which will award the qualification	MESC – Media & Entertainment Skill Council
6	Body which will accredit providers to offer courses leading to the qualification	MESC – Media & Entertainment Skill Council
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes
8	Occupation(s) to which the qualification gives access	Printing
9	Job description of the occupation	<p>A 3D printer operator is a competent individual with technical and creative skills in additive manufacturing. They use computer-aided (CAD) software to develop designs to be 3D printed into finished works.</p> <p>3D Printing technicians assist in the designing and programming of products, ranging from prosthetic products to 3D miniatures. They may also provide 3D printing maintenance, check 3D renders for customers and run 3D printing tests. 3D printing technicians can also repair, maintain and clean 3D printers.</p>
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	No
12	Level of the qualification in the NSQF	NSQF Level 4
13	Anticipated volume of training / learning required to complete the qualification	510 hrs

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14	Indicative list of training tools required to deliver this qualification	Given in Model Curriculum	
15	Entry requirements and/or recommendations and minimum age	Class 12th pass with 6 months of relevant experience OR Class 10th pass with two year of relevant experience OR ITI (2 years after 8th) with two year of relevant experience Min Age: 18 Years	
16	Progression from the qualification (Please show Professional and academic progression)	Level 5 (Vertical) Designer / CAD Operator	
17	Arrangements for the Recognition of Prior learning (RPL)	RPL with prominent Radio, Film, TV, and Advertisement and other allied Industry.	
18	International comparability Where known (research evidence to be provided)	NA	
19	Date of planned review of the qualification	30/03/2027	
20	Formal structure of the qualification Mandatory components		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level
1.	MES/N2528: Analyse 3D Technology for printing	60	4
2.	MES/N0533: Prepare 3D design, digital models and prototypes	60	4
3.	MES/N0534: Data preparation and printing	90	4
4.	MES/N0536: Conduct servicing and repairing equipment	60	4
5.	MES/N0535: Operate 3D scanning and printing machinery	90	4
6.	MES/N0104: Maintain Workplace Health & Safety	90	4
	Sub Total (A)	450	4
	Optional component		
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)	Level 4
(i)	OJT	60	4
	Sub Total (B)	60	4

	Total A+B	510	LEVEL 4
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SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment: MESC will conduct assessment through its empanelled assessment agency and subject matter experts as certified assessors.</p>
22	<p>How will RPL assessment be managed and who will carry it out? The RPL assessment will be carried out through screening, identifying skills gaps through NOS level assessment issuing NOS level scores sheets providing bridge training to cover competency gaps and conduct final assessment of the candidates. The empanelled agencies will carry out RPL assessment.</p>
23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>Assessment is done through third parties who are affiliated to MESC as Assessment Body. Assessors are trained & certified by MESC through Training of Trainers program. The assessment involves two processes. The first process is gathering the evidence of the competency of individuals. The second part of the assessment process is the judgement as to whether a person is competent or not. The assessment plan contains the following information:</p> <ul style="list-style-type: none"> ● What will be assessed, i.e. the competency based on each NOS ● How assessment will occur i.e. methods of assessment ● When the assessment will occur ● Where the assessment will take place i.e. context of the assessment (workplace/simulation) ● The criteria for decision making i.e. those aspects that will guide judgements and <p>The assessment is conducted through theory, viva voce and practical.</p>

Kindly refer:

- Protocol for Affiliation of Assessment Bodies and Assessment Framework
- Validation for Occupational Standards by Industry

ASSESSMENT EVIDENCE

Grid for each component as listed in “Formal structure of the qualification” in the Summary.

24. Assessment evidence: Title of Component:

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Analyse 3D Technology for printing	Analyse 3D print technology- 3D printing or additive manufacturing is a process of making three dimensional solid objects from a digital file.
	creation of a 3D printed object is achieved using additive processes
	Identify and install 3D software to be used
	Slicing - slicing up a 3D model into hundreds or thousands of layers
	Demonstration of different stages of AM (Additive Manufacturing) Process
	Programming of AM Parts.
	Working with 3D printer
	Select and use correct CAD formats to manufacture a 3D printed part.
Prepare 3D design, digital models and prototypes	Selection of Laser Sintering Polyjet, Materials for Additive Manufacturing & 3D Printing
	Development of AM Technologies, Computers, Computer-Aided Design Technology - Other Associated Technologies, Lasers, Printing Technologies, Programmable Logic Controllers, Materials, Computer 100 40 50 10 Numerically Controlled Machining
	Use of layers , classification of AM Processes, New AM Classification Schemes, Metal Systems, Hybrid Systems, Milestones in AM Development, AM Around the World, Rapid Prototyping Develops into Direct Digital Manufacturing
	used 3D printers in their design process to create prototypes

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	<p>Apply additive manufacturing type</p> <ul style="list-style-type: none"> • Vat Photopolymerisation – Stereolithography, Digital Light processing, Continuous liquid interface production • Material Jetting • Binder Jetting • Material Extrusion – Fused deposition modelling, Fused, Filament Fabrication • Power bed fusion: Multi Jet Fusion, Selective laser sintering, Direct metal laser sintering • Sheet Lamination <ul style="list-style-type: none"> • Directive energy deposition
<p>Data preparation and printing</p>	<p>Use of slicing tools</p> <p>Prepare STLs for 3D Printing</p> <p>Prepare CAD Models with STL file</p> <p>Process Simulations Using Finite Element Analysis</p> <p>Functional Testing, Rapid Tooling</p> <p>Use of AM to Support Medical Applications, Surgical and Diagnostic Aids, Prosthetics Development</p> <p>Outline on Manufacturing, Tissue Engineering and Organ Printing</p> <p>Able to give Software Support, Product Prototyping, Art, Jewellery</p> <p>identify opportunities to apply 3D printing Technology for time and cost saving.</p> <p>Ensure 3D printing task successfully and confirm as deliverable. Also identify Entrepreneurial opportunities in 3D Printing.</p>
<p>Operate 3D scanning and printing machinery</p>	<p>Scan the content</p> <p>Contact 3D scanning employs some kind of arm, like a robotic arm, equipped with a probe.</p> <p>Non-contact 3D scanning involves collecting radiation originating from the target object and can employ active or passive techniques</p> <p>Create and plot assembly and detail views of simple geometrical solid with Dimension, Tolerance & Annotation in 3D Modelling</p> <p>Perform different measurement with desired accuracy to check the components for functionality and conformance to defined standard using different instruments. [Different measurement: linear, taper, surface roughness, angular, thread; Different</p>

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	instruments: Vernier Caliper, Vernier height gauge, Micrometer, depth gauge, Bevel protector, sine bar, dial test indicator]
	Explain Additive Manufacturing (AM) Technology and emerging trends in Additive Manufacturing
	Develop a prototype/ end use product
	Apply process algorithm (Slicing Software)
	Make a simple fixture for functional requirement.
Conduct servicing and repairing equipment	Keep 3D printer well lubricated
	Dust the printer and its components regularly: As the 3D printer moves around, the seals on the bearings attached to each carriage, will sweep dust to the limits of the motion system. Its fans actually collect dust and can build up a sort of cobweb on them and anything near them including around the hotend.
	Check for loose nuts and bolts
	Clear any dust and debris from the extruder feeder wheels
	Tidy up and remove loose bits of 3D printing debris
	Check for overheated and deformed 3D printed parts
	Tighten up belts, Maintain and replace your bowden tube
	Clean or replace your nozzle often
Maintain workplace health and safety	PC1. Understand and comply with the organisation's current health, safety and security policies and procedures.
	PC2. Understand the safe working practices pertaining to own occupation.
	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.
	PC4. Participate in organization health and safety knowledge sessions and drills.
	PC5. Identify the people responsible for health and safety in the workplace, including those to contact in case of an emergency.
	PC6. Identify security signals e.g. fire alarms and places such as staircases, fire warden stations, first aid and medical rooms.

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	PC7. Identify aspects of your workplace that could cause potential risk to own and others health and safety.
	PC8. Ensure own personal health and safety, and that of others in the workplace through precautionary measures.
	PC9. Identify and recommend opportunities for improving health, safety, and security to the designated person.
	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.
	PC11. Follow organisation's emergency procedures for accidents, fires or any other natural calamity in case of a hazard.
	PC12. Identify and correct risks like illness, accidents, fires or any other natural calamity safely and within the limits of individual's authority.
Means of assessment 1	Online (Multiple choice Questions) Offline (Practical)
Means of assessment 2 Add boxes as required	
Pass/Fail	Pass: Above 70%

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SECTION 2

25. EVIDENCE OF LEVEL

OPTION A

Title/Name of qualification/component: 3D Printing Operator; Level:4			
NSQF Domain	Outcome of the qualification/component	How the outcomes relate to the NSQF level descriptors	NSQF Level
Process	<ul style="list-style-type: none">Analyse 3D Technology for printingPrepare 3D design, digital models and prototypesData preparation and printingOperate 3D scanning and printing machineryConduct servicing and repairing equipmentMaintain workplace health and Safety	<p>Modelling: a manufacturing company can build an object with a 3D printer, it must design the model using computer software.</p> <p>Print a model through 3D printing needs to go through the four steps: modeling, slicing, printing, and post-processing. Individual at this role will result in data preparation, 3D print, and maintenance of machine. The Qualification is peg at NSQF level 4.</p>	Level 4
Professional knowledge	<ul style="list-style-type: none">Analyse 3D Technology for printingPrepare 3D design, digital models and prototypesData preparation and printing	<p>Individual at this job role have creative and knowledge to draw free hand, being great a 3D modeling tools, managing 3D printers.</p> <p>Factual and theoretical knowledge in the field of Additive Manufacturing(3D Printing). Providing maintenance and technical Support for installation and operation of 3D Printer.</p>	Level 4
Professional skills	<ul style="list-style-type: none">Analyse 3D Technology for printingPrepare 3D design, digital models and prototypesData preparation and printing	<p>The professional skills include skills in decision making, planning and organizing, customer centricity, problem solving, analytical thinking.</p>	Level 4

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	<ul style="list-style-type: none">• Operate 3D scanning and printing machinery• Conduct servicing and repairing equipment	Range of cognitive and practical skills required for the installation and maintenance of 3D Printer.	
Core skills	<ul style="list-style-type: none">• Analyse 3D Technology for printing• Prepare 3D design, digital models and prototypes• Data preparation and printing• Operate 3D scanning and printing machinery• Conduct servicing and repairing equipment	Effective skills in writing, reading and oral communication (listening and speaking skills) with required clarity. Basic mathematical skills in collecting, communicating and presenting materials based on sound social political and natural environment.	Level 4
Responsibility	<ul style="list-style-type: none">• Analyse 3D Technology for printing• Prepare 3D design, digital models and prototypes• Data preparation and printing• Operate 3D scanning and printing machinery• Conduct servicing and repairing equipment	Completely responsible for the output. Effective team work and safety of self and colleagues. Responsible for self-learning goals. Interact with supervisor and co-ordinate with colleagues. Also responsible for self-learning in 3D Printing domain	Level 4

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SECTION 3**EVIDENCE OF NEED**

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?		
	Basic	In case of SSC	In case of other Awarding Bodies (Institutes under Central Ministries and states departments)
	Need of the qualification	As per the latest MESC skill Gap study conducted by Deloitte for 2021-2025, the Indian M&E Sector including journalism, digital media increases significantly. It attracts huge manpower requirement and skilled resources. The change in media like social media engine the scope of journalism strengthen. It requires huge manpower across the country to cover the news.	
	Industry Relevance	MESC would undertake validation of the job roles with actual end-user industry where such employment is going to be generated and absorbed instead of generic validation of industry. MESC would submit the endorsements from users/intended users of the qualification clearly supporting or otherwise the need for trained people against specific job role.	
	Usage of the qualification	MESC would submit details of the employment generated (wherever applicable) and realised by virtue of training in the Qualifications of the sector earlier submitted for NSQF alignment. In case of unorganized sector, case studies or evidences may be given	

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	Estimated uptake	The MESC would submit the estimated uptake of the qualification and What steps were carried out to test the likely uptake of the takers for this the qualification? The basis of this estimate should include data about the number of jobs or places in courses of learning which will be available to people who are awarded the qualification.	
27	Recommendation from the concerned Line Ministry of the Body. Government/Regulatory. To be supported by documentary evidences MESC has approached the line Ministry (Ministry of information and broadcasting) and submitted detail Qualification for their concurrence. Response is yet to be received.		
28	What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification As part of the skilled Gap Survey we have done functional mapping for all the job roles, ensuring there is no duplications in the planned qualifications in NSQF through vertical career progression and horizontal multiskilling. We have also check NQR (National Qualification Register) for any duplication.		
29	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? Specify the review process here The qualifications will be revised and updated when any one of the below instances occur: <ol style="list-style-type: none">1. 60 months from the approval of the NSQC2. If less than 50% of the certified candidates get engaged in the industry.3. When there is significant improvement in technology/ processes for executing the job role.		

SECTION 4

EVIDENCE OF PROGRESSION

30	<p>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?</p> <p><i>Show the career map here to reflect the clear progression</i></p>
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NSQF Levels	Job Roles
Level 7	Entrepreneur
Level 6	Printing Director
Level 5	Printing supervisor
Level 4	Offset Printing Operator / 3D Printing Operator
Level 3	Assistant offset printing operator

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CRITERIA FOR ASSESSMENT OF TRAINEES

Job Role: 3D Printing Operator, NSQF Level: 4

Sector Skill Council: Media and Entertainment Skills Council

	NOS NAME	Weightage
1	Analyse 3D Technology for printing	20%
2	Prepare 3D design, digital models and prototypes	20%
3	Data preparation and printing	20%
4	Operate 3D scanning and printing machinery	10%
5	Conduct servicing and repairing equipment	20%
6	Maintain workplace health and safety	10%
		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 MESC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria.
5. To pass the Qualification Pack, every trainee should score a minimum of 70% cumulatively (Theory and Practical).

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Assessment Outcomes	Assessment Criteria for Outcomes	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
Analyse 3D Technology for printing	Analyse 3D print technology- 3D printing or additive manufacturing is a process of making three dimensional solid objects from a digital file.	100	15	5	50
	creation of a 3D printed object is achieved using additive processes		15	10	
	Identify and install 3D software to be used		15	5	
	Slicing - slicing up a 3D model into hundreds or thousands of layers		10	5	
	Demonstration of different stages of AM (Additive Manufacturing) Process		15	10	
	Programming of AM Parts.		10	5	
	Working with 3D printer		10	5	
	Select and use correct CAD formats to manufacture a 3D printed part.		10	5	
		Total	100	50	50
Prepare 3D design, digital models and prototypes	Selection of Laser Sintering Polyjet, Materials for Additive Manufacturing & 3D Printing	100	25	5	70
	Development of AM Technologies, Computers, Computer-Aided Design Technology - Other Associated Technologies, Lasers, Printing Technologies, Programmable Logic Controllers, Materials, Computer 100 40 50 10 Numerically Controlled Machining		25	5	
	Use of layers , classification of AM Processes, New AM Classification Schemes, Metal Systems, Hybrid Systems, Milestones in AM Development, AM Around the World, Rapid Prototyping Develops into Direct Digital Manufacturing		20	5	
	Use 3D printers in their design process to create prototypes		10	5	
	Apply additive manufacturing type <ul style="list-style-type: none"> Vat Photopolymerisation – Stereolithography, Digital Light processing, Continuous liquid interface production 		20	10	

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	<ul style="list-style-type: none"> • Material Jetting • Binder Jetting • Material Extrusion – Fused deposition modelling, Fused, Filament Fabrication • Power bed fusion: Multi Jet Fusion, Selective laser sintering, Direct metal laser sintering • Sheet Lamination Directive energy deposition				
			10	5	
		Total	100	30	70
Data preparation and printing	Use of slicing tools	100	10	5	50
	Prepare STLs for 3D Printing		10	5	
	Prepare CAD Models with STL file		10	5	
	Process Simulations Using Finite Element Analysis		10	5	
	Functional Testing, Rapid Tooling		10	5	
	Use of AM to Support Medical Applications, Surgical and Diagnostic Aids, Prosthetics Development		10	5	
	Outline on Manufacturing, Tissue Engineering and Organ Printing		10	5	
	Able to give Software Support, Product Prototyping, Art, Jewellery		10	5	
	identify opportunities to apply 3D printing Technology for time and cost saving.		10	5	
	Ensure 3D printing task successfully and confirm as deliverable. Also identify Entrepreneurial opportunities in 3D Printing.		10	5	
		Total	100	50	50
Operate 3D scanning and printing machinery	Scan the content	100	15	5	65
	Contact 3D scanning employs some kind of arm, like a robotic arm, equipped with a probe. Non-contact 3D scanning involves collecting radiation originating from the target object and can employ active or passive techniques				

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	Create and plot assembly and detail views of simple geometrical solid with Dimension, Tolerance & Annotation in 3D Modelling		15	5	
	Perform different measurement with desired accuracy to check the components for functionality and conformance to defined standard using different instruments. [Different measurement: linear, taper, surface roughness, angular, thread; Different instruments: Vernier Caliper, Vernier height gauge, Micrometer, depth gauge, Bevel protector, sine bar, dial test indicator]		15	5	
	Explain Additive Manufacturing (AM) Technology and emerging trends in Additive Manufacturing		15	5	
	Develop a prototype/ end use product		15	5	
	Apply process algorithm (Slicing Software)		15	5	
	Make a simple fixture for functional requirement.		10	5	
		Total	100	35	65
Conduct servicing and repairing equipment	Keep 3D printer well lubricated		15	5	60
	Dust the printer and its components regularly: As the 3D printer moves around, the seals on the bearings attached to each carriage, will sweep dust to the limits of the motion system. Its fans actually collect dust and can build up a sort of cobweb on them and anything near them including around the hotend.		15	5	
	Check for loose nuts and bolts		15	5	
	Clear any dust and debris from the extruder feeder wheels		15	5	
	Tidy up and remove loose bits of 3D printing debris		10	5	
	Check for overheated and deformed 3D printed parts		10	5	
	Tighten up belts, Maintain and replace your bowden tube		10	5	
	Clean or replace your nozzle often		10	5	
			100	40	60

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Maintain workplace health and safety	PC1. maintain one's posture and position to minimize fatigue and the risk of injury	100	10	5	5
	PC2. maintain first aid kit and keep oneself updated on the first aid procedures		10	5	5
	PC3. identify and document potential risks like sitting postures while using computer, eye fatigues and other hazards at the workplace		5	2	3
	PC4. accurately maintain accident reports		5	2	3
	PC5. report health and safety risks/ hazards to concerned personnel		10	5	5
	PC6. participate in organization's health and safety knowledge sessions and drills		10	5	5
	PC7. identify the people, responsible for health and safety at the workplace, including those to contact in case of an emergency		10	5	5
	PC8. identify security signals e.g. fire alarms and places such as staircases, fire warden stations, first aid and medical rooms		10	5	5
	PC9. identify aspects of workplace that could cause potential risk to own and others health and safety		5	2	3
	PC10. ensure own personal health and safety, and that of others in the workplace though precautionary measures		5	2	3
	PC11. identify and recommend opportunities for improving health, safety, and security to the designated person		5	2	3
	PC12. report any hazards outside the individual's authority to the relevant person in line with organisational		5	2	3

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	procedures and warn other people who may be affected				
	PC13. follow organisation's emergency procedures for accidents, fire or any other natural calamity in case of a hazard		5	2	3
	PC14. identify and correct risks like illness, accidents, fires or any other natural calamity safely and within the limits of individual's authority		5	2	3
		Total	100	46	54

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