



## 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

#### Contact Us:

Media & Entertainment Skills Council





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#### Introduction

## **Qualifications Pack-Broadcast Operations Manager**

**SECTOR: MEDIA AND ENTERTAINMENT** 

**SUB-SECTOR:** Television, Radio

**OCCUPATION:** Broadcast Operations/ Technology

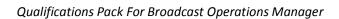
**REFERENCE ID:** MES/ Q 0802

**ALIGNED TO: NCO-2004/NIL** 

Broadcast Operations Manager in the Media & Entertainment Industry is also known as Manager - Operations and Technology

Brief Job Description: Individuals at this job are responsible for managing the broadcast operations team

Personal Attributes: This job requires the individual to manage, schedule and train the broadcast operations team. The individual is responsible to assign tasks and oversee activities of members within the team. The individual is responsible to plan and oversee execution of all technical aspects of shoots and other broadcast operations. The individual is the point of contact for all technical issues faced by content/production departments and is responsible to diagnose and manage the resolution of issues.







Job Details

Qualifications Pack Code	MES/ Q 0802		
Job Role	Broadcast Operations Manager This job role is applicable in both national and international scenarios		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	18/09/13
Sub-sector	Television, Radio	Last reviewed on	25/03/15
Occupation	Broadcast Operations / Technology	Next review date	24/03/17

Job Role	Broadcast Operations Manager	
Role Description	Manage the activities of the broadcast operations team	
NSQF level Minimum Educational Qualifications	7 Bachelor of Engineering (B.E.)/Bachelor of Technology (B.Tech) – electronics and communication	
Maximum Educational Qualifications	Masters of Engineering (M.E.)/ Masters of Technology (M.Tech)	
Training	Broadcast engineering technology, Electrical and	
(Suggested but not mandatory)	Telecommunications	
Experience	4-6 years	
	Compulsory:	
Applicable National Occupational Standards (NOS)	<ol> <li>MES / N 0802 (Oversee broadcast operations staff and activities)</li> <li>MES / N 0803 (Manage broadcast facility, equipment and systems)</li> <li>MES / N 0808 (Maintain workplace health and safety)</li> <li>Optional: N.A.</li> </ol>	
Performance Criteria	As described in the relevant OS units	





Definitions

Keywords /Terms	Description
Archive	A repository where content produced is stored for further use
Ingest	Process of importing data into a digital storage system for future use
Leased Lines	A fiber connection used to connect, transfer and transmit data
Master Control Room	Central room from where broadcasting takes place
Waster Control Room	Keywords describing content that can be used to search/find information
Meta tagging	from a website/server
55 0	Equipment that transmits channels from the broadcaster's head end to
Play-out systems	subscribers
Satellite	Communications equipment used to receive/transmit audio and video signals
Server	A centralised computer that provides access to resources over a network
Signal	Radio waves carrying audio/video content to be dispersed to an audience
Switcher	A device used to combine or select audio/video signals for playout
Switcher	A transmission path through which audio/video signals are sent for
Uplinking	broadcasting
Waveform monitoring	An equipment used to measure the level and voltage of video signals
Target Audience	Set of individuals with similar characteristics that are prospective
	customers of the advertisers' product/service
Target Market	The geographic area over which the advertising campaign is focused
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
N	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 served by the industry.	
Occupation	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
Tab and	objectives of the function.
Job role	Job role defines a unique set of functions that together form a unique
Occupational Standards	employment opportunity in an organization.  OS specify the standards of performance an individual must achieve
(OS)	when carrying out a function in the workplace, together with the
(03)	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	NOS are Occupational Standards which apply uniquely in the Indian
Standards (NOS)	context.
Qualifications Pack	Qualifications Pack Code is a unique reference code that identifies a
Code	qualifications pack.



### Qualifications Pack For Broadcast Operations Manager



	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
	эсорс	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
	Core Skills/Generic	specific designated responsibilities.  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
	J. Milio	work environment. In the context of the OS, these include
		communication related skills that are applicable to most job roles.
	Keywords /Terms	Description
	NOS	National Occupational Standard(s)
	QP	Qualifications Pack
	NSQF	National Skill Qualifications Framework
	NVEQF	National Vocational Education Qualifications Framework
	NVQF	National Vocational Qualifications Framework
	TCP	Transmission Control
	IP	Internet protocol
	DSNG	Digital satellite news gathering
DG Diesel generator		Diesel generator
	ОВ	Outside Broadcast

Acronyms

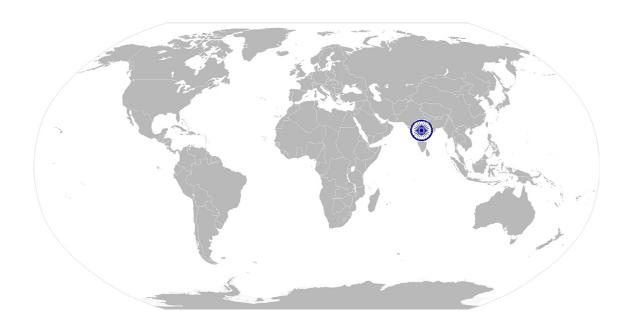






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## National Occupational Standard



## **Overview**

This unit is about planning, managing and overseeing all the activities performed by the broadcast operations staff







#### Oversee broadcast operations staff and activities

Unit Code	MES/ N 0802
Unit Title	Oversee broadcast operations staff and activities
(Task)	Oversee broadcast operations start and activities
Description	This OS unit is about planning, managing and overseeing all the activities performed by the broadcast operations staff
Scope	<ul> <li>This unit/task covers the following:         <ul> <li>Planning and managing team activities and supporting head of broadcast operations</li> <li>Gathering information on operational issues and diagnosing and managing the resolution of issues</li> <li>Team scheduling (rosters, overtime etc.), training and management</li> </ul> </li> </ul>
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Planning and managing team activities and supporting head of broadcast operations	To be competent, the user/individual on the job must be able to:  PC1. Pre-plan and manage the technical aspects for each shoot, ensuring that the engineers are aware of the schedules and requirements and effectively carry out their tasks and activities  PC2. Support the head of broadcasting in procuring uplinking rights, managing broadcasting deals, accreditations
Gathering information on operational issues and diagnosing and managing the resolution of issues	PC3. Serve as a point of contact for all broadcasting issues, ensuring their resolution through the engineering team
Team scheduling (rosters, overtime etc.), training and management	<ul> <li>PC4. Schedule the rosters of the engineering team and allocate them on specific projects/tasks</li> <li>PC5. Create standard operating procedures and technical training manuals for broadcast engineers</li> <li>PC6. Define key result areas and metrics for broadcast engineers to enable them to benchmark their performance</li> </ul>
Knowledge and Unders	standing (K)
A. Organizational Context (Knowledge of the company / organization and its processes)	<ul> <li>The user/individual on the job needs to know and understand:</li> <li>KA1. The broadcast equipment being used by the organization and by its competition</li> <li>KA2. Broadcasting operations and technology</li> <li>KA3. The current content gathering and production processes and techniques being followed in the organization</li> <li>KA4. The production facilities available with the organization such as master control room, studios, server rooms, production control room etc. and activities carried out within them</li> <li>KA5. The roles, responsibilities and activities of all the key departments within the organization using broadcast equipment</li> </ul>







#### Oversee broadcast operations staff and activities

D. Tochmical	The user/individual on the job products know and understands
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	KB1. Programming and broadcast workflows, equipment and technologies
	KB2. The fundamentals of personnel management
	KB3. The fundamentals of project management
	KB4. Applicable problem-solving techniques and methods
	KB5. Broadcast equipment details, specifications, vendor contacts, upgrades available etc.
	KB6. The standard specifications for signals and audio/video output
	KB7. How to carry out an independent assessment of signal quality and output of
	broadcast systems using relative grading, meters, waveform monitoring, test signals etc.
	KB8. The techniques for discovering issues such as comparison of meter readings
	with standard operating specifications, comparison of current performance
	with past performance etc.
	KB9. How to come up with the most relevant and realistic solutions to
	troubleshoot and resolve engineering issues
	KB10. Relevant industry standards being followed in the broadcasting industry by
	domestic and international peers/competition
	KB11. Legal and regulatory requirements for the broadcasting industry
	KB12. Applicable health and safety guidelines
Skills (S) (Optional)	The state of the s
	Maritime Chille
A. Core Skills/	Writing Skills
Generic Skills	
Generic Skins	The user/individual on the job needs to know and understand how to:
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Generic Skiis	SA1. Prepare team rosters and plan overtime SA2. Collate information and prepare periodic reports on technical, maintenance and operational routine/emergency activities
Generic Skiis	SA1. Prepare team rosters and plan overtime SA2. Collate information and prepare periodic reports on technical, maintenance
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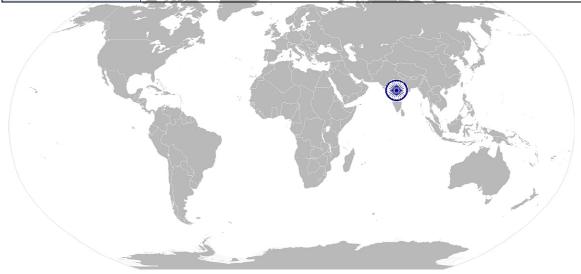






#### Oversee broadcast operations staff and activities

	Des Constant Chille	No. and Outside	
В.	Professional Skills	Plan and Organise	
		The user/individual on the job needs to know and understand how to:	
		SB1. Prepare rosters for the engineering staff and assign tasks and activities	
		SB2. Plan out specific activities (in relation to resolving engineering issues) to	
		help/guide staff members	
		170	
		Problem Solving	
		The user/individual on the job needs to know and understand how to:	
		SB3. Interpret the correct nature of issues and evaluate realistic solutions to	
		resolve operational issues	
		SB4. Devise innovative and effective engineering solutions to resolve issues	
	Analytical Thinking		
		The user/individual on the job needs to know and understand how to:	
		SB5. Use observation skills and own judgment to proactively identify operational	
		issues	
		SB6. Diagnose symptoms of the issues that occur, and institute measures to ensure	
		early identification and resolution in the future	





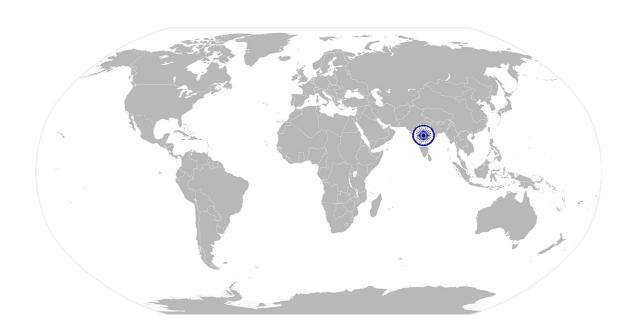




Oversee broadcast operations staff and activities

## **NOS Version Control**

NOS Code	MES / N 0802		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	18/09/13
Sub-sector	Television, Radio	Last reviewed on	25/03/15
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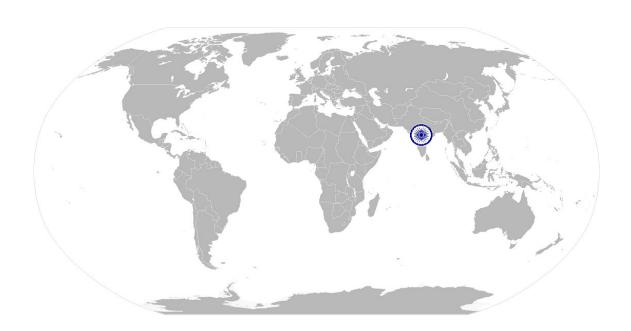






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## National Occupational Standard



## **Overview**

This unit is about managing broadcast facilities, equipment and systems to optimize operational efficiency







#### Manage broadcast facility, equipment and systems

Unit Code	MES/ N 0803		
Unit Title	IVIES/ IN USUS		
(Task)	Manage broadcast facility, equipment and systems		
Description	This OS unit is about managing broadcast facilities, equipment and systems to optimize operational efficiency		
Scope	<ul> <li>This unit/task covers the following:</li> <li>Optimise utilization of facilities and equipment</li> <li>Planning upgrades/ purchases of equipment</li> </ul>		
Performance Criteria (P	PC) w.r.t. the Scope		
Element	Performance Criteria		
Optimise utilization of facilities and equipment	To be competent, the user/individual on the job must be able to:  PC1. Monitor output and performance to manage and optimise the utilisation of current equipment and facilities  a. Broadcast facilities would include permanent facilities such as studios, production floor, control room(s), edit suites and temporary facilities such as outside broadcast vans (OB vans)/ hired studios, event venues etc.  b. Broadcast equipment would include broadcast equipment (like broadcast cameras, switchers, measurement systems, compression devices, networking, editing systems etc.), Technology (including Storage (SAN server /tapes / digital archives), compression (MPEG, DVB etc.), System networking, playout technologies, automation, networking etc.) and Rf equipment (including transmission, uplinking and downlinking equipment including satellites, antennas, decoders, lease lines, towers, flyways, digital modulators etc.)		
Planning upgrades/ purchases of equipment	PC2. Manage relationships with the key vendors of broadcasting equipment and maintenance contracts  PC3. Recommend equipment and software vendors for purchases/upgrades sanctioned by the management  PC4. Suggest improvements/additions in equipment and technology that are cost effective and are based on best practices being deployed by the industry		
Knowledge and Unders	tanding (K)		
B. 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 vision and business goals of the organisation</li> <li>KA2. The management of the channel/station and heads of various departments</li> <li>KA3. The roles and responsibilities of various departments within the organization and their interface with technology</li> <li>KA4. The technologies and equipment being used in the organization - OB vans, transmission equipment, audio/video mixers, audio switchers, video switchers, monitors, feeds, servers, transmission control systems, satellites, editing systems etc.</li> <li>KA5. The vendors of broadcasting equipment and maintenance contracts</li> </ul>		







### Manage broadcast facility, equipment and systems

B. Technical	The user/individual on the job needs to know and understand:	
Knowledge	KB1. Fundamentals of program management	
	KB2. Fundamentals of broadcasting and broadcast technologies	
	KB3. Fundamentals of budgeting and budget management	
	KB4. Fundamentals of Information Technology	
	<del>-</del> ·	
	KB5. Broadcast technologies, encryption systems and equipment across content	
	gathering, media management, production and post-production	
	KB6. How to read and interpret system specifications and drawings	
	KB7. How to design the layout for equipment and technologies that would	
	maximise output and efficiency	
	KB8. How to gauge the need, advantages and disadvantages for new technologies	
	and equipment	
	KB9. The vendors for different types of broadcast equipment	
	KB10. How to do a cost-benefit analysis for procuring new equipment	
	KB11. How to ensure compatibility of the equipment upgrades/replacements with	
	the existing systems and technologies	
	KB12. Legal and regulatory requirements of broadcasting	
	KB13. Applicable health and safety guidelines	
Skills (S) (Optional)		
C Coro Skills/	Writing Skills	
C. Core Skills/	Writing Skills	
Generic Skills	The user/individual on the job needs to know and understand how to:	
	SA1. Prepare layouts for the placement dequipment and technologies	
	SA2. Develop budgets for routine maintenance of broadcast equipment, servers	
	SA3. Develop cost benefit analysis for equipment upgrades/purchases	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA4. Keep updated on the latest technology trends and equipment being used in	
	the industry and the likely impact on the organisations processes	
	SA5. Read manufacturers manuals to understand the features of new equipment	
	and technology	
	SA6. Read and interpret system specifications and drawings	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA7. Interface with several departments across the organization including content	
	gathering, production etc. on equipment needs, readiness and support,	
	complex issues etc.	
	SA8. Liaise with equipment vendors to gather information on new products,	
	technologies, upgrades etc.	
	SA9. Liaise with the finance team to perform a cost-benefit analysis for purchase of	
	new technology	
	SA10. Present a case to the management for technology upgrades/replacements	
D D ( ) 101	and obtain their approval	
D. Professional Skills	S Decision making	
	Decision making	
	The user/individual on the job needs to know and understand how to:	

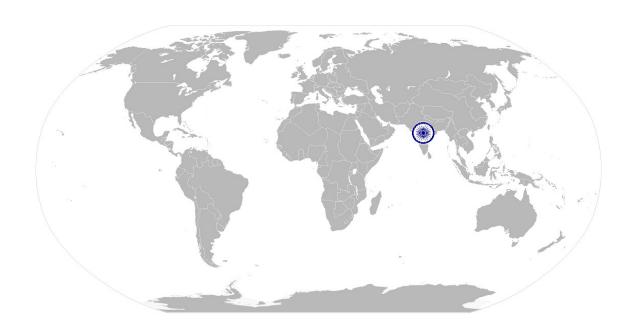






### Manage broadcast facility, equipment and systems

Plan and Organise
The user/individual on the job needs to know and understand how to:  SB2. Plan the layout of equipment and technology that would optimize operational efficiency
Analytical Thinking
The user/individual on the job needs to know and understand how to:  SB3. Devise techniques to improve the utilization of equipment and improve efficiency





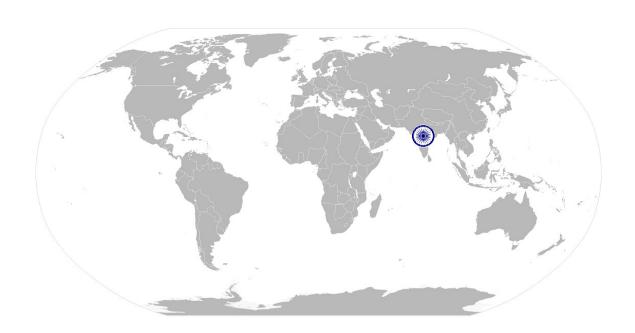




Manage broadcast facility, equipment and systems

## **NOS Version Control**

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Sub-sector	Television, Radio	Last reviewed on	25/03/15
Occupation	Broadcast Operations / Technology	Next review date	24/03/17









MES/ N 0808 Maintain workplace health and safety

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# National Occupational Standard



## **Overview**

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



National Occupational Standards



MES/ N 0808

#### Maintain workplace health and safety

Unit Code	MES/ N 0808
Unit Title (Task)	Maintain workplace health and safety
Description	This OS unit is about contributing towards maintaining a healthy, safe and secure working environment
Scope	<ul> <li>This unit/task covers the following:</li> <li>Understanding the health, safety and security risks prevalent in the workplace</li> <li>Knowing the people responsible for health and safety and the resources available</li> <li>Identifying and reporting risks</li> <li>Complying with procedures in the event of an emergency</li> </ul>
Performance Criteria (	PC) w.r.t. the Scope
Element	Performance Criteria
Understanding the risks prevalent in the workplace	To be competent, the user/individual on the job must be able to: 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
Knowing the people responsible for health and safety and the resources available	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
Identifying and reporting risks	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 though 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
Complying with procedures in the event of an emergency	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
Knowledge and Under	standing (K)
A. Organizational Context (Knowledge of the company / organization and	The user/individual on the job needs to know and understand: KA1. Organisation's norms and policies relating to health and safety KA2. Government norms and policies regarding health and safety and related emergency procedures KA3. Limits of authority while dealing with risks/ hazards KA4. The importance of maintaining high standards of health and safety at a







#### Maintain workplace health and safety

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



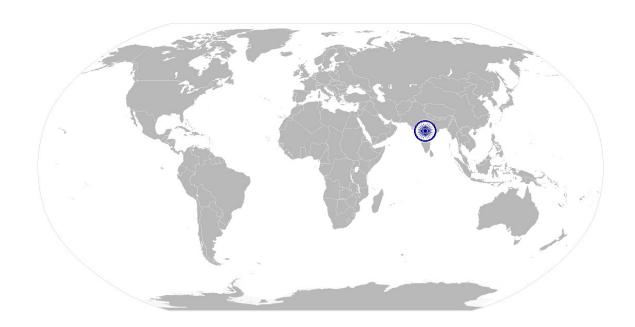




Maintain workplace health and safety

## NOS Version Control

NOS Code	MES / N 0808		
Credits(NSQF)	TBD	Version number	1.0
Sector	Media and Entertainment	Drafted on	18/09/13
Sub-sector	Television	Last reviewed on	25/03/15
Occupation	Broadcast Operations / Technology	Next review date	24/03/17



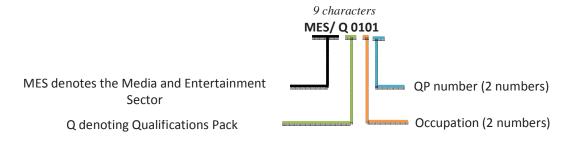




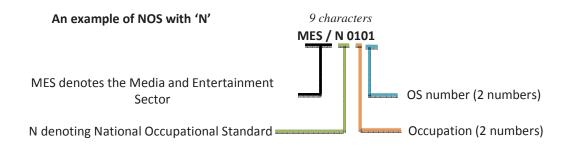
## **Annexure**

#### Nomenclature for QP and NOS

## **Qualifications Pack**



## **Occupational Standard**



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## Qualifications Pack For Broadcast Operations Manager



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	Broadcast Operations/ Technology	08
Next two numbers	Broadcast Operations Manager	02