



# Automotive Dealership Data Science Specialist

QP Code: ASC/Q1438

Version: 1.0

NSQF Level: 6

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## ASC/Q1438: Automotive Dealership Data Science Specialist

### Brief Job Description

The individual at this job is responsible for designing and developing the visualization platforms for end-to-end visibility, after-sales analytics solutions and services, and customer retention strategies based on the customer database. He/She leads the development activities and guide the team on the technical front in analytics solutions and reviewing of code and supports a range of analytical, visualization, and predictive modelling projects along with project management.

### Personal Attributes

The person should have good technical and analytical skills, should have excellent interpersonal skills, communication, and presentation skills, and a good team player. The person should have project management skills, and also carry out prioritization of work and mentoring the budding engineers.

### Applicable National Occupational Standards (NOS)

#### Compulsory NOS:

1. [ASC/N9813: Manage work and resources \(Service\)](#)
2. [DGT/VSQ/N0104: Employability Skills \(120 Hours\)](#)
3. [ASC/N1465: Manage data extraction from the dealership entities](#)
4. [ASC/N1466: Prepare and analyse dealerships data by using analytical tools](#)
5. [ASC/N1467: Develop solutions for complex business problems in dealerships](#)

### Qualification Pack (QP) Parameters

<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Automotive Vehicle Service
<b>Occupation</b>	Technical Service & Repair
<b>Country</b>	India
<b>NSQF Level</b>	6
<b>Credits</b>	22
<b>Aligned to NCO/ISCO/ISIC Code</b>	NCO-2015/2521.0100

<b>Minimum Educational Qualification &amp; Experience</b>	<p>B.E./B.Tech with 1 Year of experience in relevant field OR Certificate-NSQF (Automotive Dealership Data Analysis Engineer Level 6/ Four wheeler Service Lead Technician Level 5) with 2 Years of experience in relevant field OR M.Tech (Pursuing 2nd year) OR M.E. (Pursuing 2nd year)</p>
<b>Minimum Level of Education for Training in School</b>	Not Applicable
<b>Pre-Requisite License or Training</b>	NA
<b>Minimum Job Entry Age</b>	22 Years
<b>Last Reviewed On</b>	23-06-2023
<b>Next Review Date</b>	23-06-2026
<b>NSQC Approval Date</b>	23-06-2023
<b>Version</b>	1.0

## ASC/N9813: Manage work and resources (Service)

### Description

This NOS unit is about implementing safety, planning work, adopting sustainable practices for optimising use of resources.

### Scope

The scope covers the following :

- Maintain safe and secure working environment
- Ensure work as per quality standards
- Material/energy/electricity conservation practices
- Effective waste management/recycling practices
- Ensure a healthy and hygienic workplace

### Elements and Performance Criteria

#### *Maintain safe and secure working environment*

To be competent, the user/individual on the job must be able to:

- PC1.** ensure that the team complies with organisation's health, safety, security policies and procedures
- PC2.** identify the risks and hazards associated with work activities, their causes and prevention as per organisation's policy
- PC3.** encourage team to report any identified breaches in health, safety, and security policies and procedures to the designated person

#### *Ensure work as per quality standards*

To be competent, the user/individual on the job must be able to:

- PC4.** ensure work area is kept clean and tidy
- PC5.** identify individual work requirements and provide necessary instructions to the team
- PC6.** ensure the team works as per the assigned and agreed requirements
- PC7.** identify work which fails the requirements, specified quality standards and ensure timely corrective action is taken
- PC8.** implement ways and guide the team to manage time, resources and cost effectively
- PC9.** train the team on skill level advancement to develop expertise in their work
- PC10.** ensure that the team understands accountability for timely completion of tasks
- PC11.** analyse and validate the problem accurately and communicate different possible solutions to the problem

#### *Material/energy/electricity conservation practices*

To be competent, the user/individual on the job must be able to:

- PC12.** identify ways to optimize usage of electricity/other source of energy and material including water in various tasks/activities/processes
- PC13.** ensure that the team uses resources in a responsible manner
- PC14.** ensure that the team periodically checks for spills/leakages around the work area and take corrective actions or escalate to appropriate authority if unable to rectify

- PC15.** supervise team to carry out routine cleaning of tools, machine and equipment
- PC16.** ensure that the team periodically checks if the equipment/machines are maintained and functioning normally before commencing work and take corrective action wherever required

*Effective waste management/recycling practices*

To be competent, the user/individual on the job must be able to:

- PC17.** identify recyclable, non-recyclable and hazardous waste generated
- PC18.** ensure the team segregates waste into different categories
- PC19.** ensure proper disposal of non-recyclable waste
- PC20.** ensure recyclable and reusable material is deposited at identified location
- PC21.** ensure the team follows processes specified for disposal of hazardous waste

*Ensure a healthy and hygienic workplace*

To be competent, the user/individual on the job must be able to:

- PC22.** ensure workplace, equipment, restrooms etc. are sanitized regularly
- PC23.** promote awareness about hygiene and sanitation regulations
- PC24.** check availability of running water, hand wash and alcohol-based sanitizers at workplace
- PC25.** support employees to cope with stress, anxiety etc.
- PC26.** wear and dispose PPEs regularly and appropriately

## **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- KU1.** different types of health and safety hazards that can be found in the workplace, risks and threats based on the nature of work
- KU2.** company defined workplace hazards and rules/regulation for maintaining health, safety and security at workplace
- KU3.** breaches in health, safety and security as well as procedures to report the same
- KU4.** workshop layout with electrical, hydraulic and thermal equipment used
- KU5.** the organisation's emergency procedures for different emergency situations and the importance of following the same
- KU6.** ways of time and cost management
- KU7.** ways to manage efficient utilisation of energy, material and water in the process
- KU8.** ways to recognize common electrical problems and common practices of conserving electricity
- KU9.** usage of different colours of dustbins and categorization of waste into dry, wet, recyclable, non-recyclable and items of single-use plastics
- KU10.** organisations procedures for minimizing waste
- KU11.** waste management and methods of waste disposal
- KU12.** common sources of pollution and ways to minimize it
- KU13.** different ways for skill level advancement to develop expertise
- KU14.** key performance indicators for the new tasks
- KU15.** timelines and goals set by the manager
- KU16.** importance of quality and timely delivery of the product/service

**KU17.** organisation's policies to maintain personal health and hygiene at workplace

**KU18.** significance of greening

### **Generic Skills (GS)**

User/individual on the job needs to know how to:

- GS1.** read instructions/guidelines/procedures
- GS2.** listen effectively and orally communicate information
- GS3.** ask for clarification and advice from the concerned person
- GS4.** maintain positive and effective relationships with colleagues and customers
- GS5.** evaluate the possible solution(s) to the problem
- GS6.** complete written work with attention to detail
- GS7.** modify work practices to improve them
- GS8.** work with supervisors/team members to carry out work related tasks
- GS9.** complete tasks efficiently and accurately within stipulated time
- GS10.** make timely decisions for efficient utilization of resources
- GS11.** be punctual and utilize time
- GS12.** evaluate strategies to maintain, enhance or reduce the intensity of heightened emotional response

## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Maintain safe and secure working environment</i>	<b>7</b>	<b>5</b>	-	<b>4</b>
<b>PC1.</b> ensure that the team complies with organisation's health, safety, security policies and procedures	2	2	-	1
<b>PC2.</b> identify the risks and hazards associated with work activities, their causes and prevention as per organisation's policy	3	2	-	2
<b>PC3.</b> encourage team to report any identified breaches in health, safety, and security policies and procedures to the designated person	2	1	-	1
<i>Ensure work as per quality standards</i>	<b>15</b>	<b>8</b>	-	<b>5</b>
<b>PC4.</b> ensure work area is kept clean and tidy	2	1	-	-
<b>PC5.</b> identify individual work requirements and provide necessary instructions to the team	2	1	-	1
<b>PC6.</b> ensure the team works as per the assigned and agreed requirements	1	1	-	-
<b>PC7.</b> identify work which fails the requirements, specified quality standards and ensure timely corrective action is taken	3	2	-	2
<b>PC8.</b> implement ways and guide the team to manage time, resources and cost effectively	2	-	-	-
<b>PC9.</b> train the team on skill level advancement to develop expertise in their work	2	1	-	1
<b>PC10.</b> ensure that the team understands accountability for timely completion of tasks	2	-	-	-
<b>PC11.</b> analyse and validate the problem accurately and communicate different possible solutions to the problem	1	2	-	1
<i>Material/energy/electricity conservation practices</i>	<b>10</b>	<b>6</b>	-	<b>4</b>
<b>PC12.</b> identify ways to optimize usage of electricity/other source of energy and material including water in various tasks/activities/processes	2	2	-	2



<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>PC13.</b> ensure that the team uses resources in a responsible manner	2	1	-	-
<b>PC14.</b> ensure that the team periodically checks for spills/leakages around the work area and take corrective actions or escalate to appropriate authority if unable to rectify	2	1	-	1
<b>PC15.</b> supervise team to carry out routine cleaning of tools, machine and equipment	2	1	-	-
<b>PC16.</b> ensure that the team periodically checks if the equipment/machines are maintained and functioning normally before commencing work and take corrective action wherever required	2	1	-	1
<i>Effective waste management/recycling practices</i>	<b>10</b>	<b>6</b>	-	<b>4</b>
<b>PC17.</b> identify recyclable, non-recyclable and hazardous waste generated	2	2	-	1
<b>PC18.</b> ensure the team segregates waste into different categories	2	1	-	1
<b>PC19.</b> ensure proper disposal of non-recyclable waste	2	1	-	-
<b>PC20.</b> ensure recyclable and reusable material is deposited at identified location	2	1	-	1
<b>PC21.</b> ensure the team follows processes specified for disposal of hazardous waste	2	1	-	1
<i>Ensure a healthy and hygienic workplace</i>	<b>8</b>	<b>5</b>	-	<b>3</b>
<b>PC22.</b> ensure workplace, equipment, restrooms etc. are sanitized regularly	2	1	-	-
<b>PC23.</b> promote awareness about hygiene and sanitation regulations	2	1	-	1
<b>PC24.</b> check availability of running water, hand wash and alcohol-based sanitizers at workplace	1	1	-	-
<b>PC25.</b> support employees to cope with stress, anxiety etc.	1	1	-	1
<b>PC26.</b> wear and dispose PPEs regularly and appropriately	2	1	-	1

<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>NOS Total</b>	<b>50</b>	<b>30</b>	<b>-</b>	<b>20</b>

## National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	ASC/N9813
<b>NOS Name</b>	Manage work and resources (Service)
<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Generic
<b>Occupation</b>	Generic
<b>NSQF Level</b>	5
<b>Credits</b>	2
<b>Version</b>	2.0
<b>Last Reviewed Date</b>	NA
<b>Next Review Date</b>	29/01/2026
<b>NSQC Clearance Date</b>	29/01/2021

## **DGT/VSQ/N0104: Employability Skills (120 Hours)**

### **Description**

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

### **Scope**

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Career Development & Goal Setting
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

### **Elements and Performance Criteria**

#### *Introduction to Employability Skills*

To be competent, the user/individual on the job must be able to:

- PC1.** understand the significance of employability skills in meeting the current job market requirement and future of work
- PC2.** identify and explore learning and employability relevant portals
- PC3.** research about the different industries, job market trends, latest skills required and the available opportunities

#### *Constitutional values - Citizenship*

To be competent, the user/individual on the job must be able to:

- PC4.** recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. for personal growth and the nation's progress
- PC5.** follow personal values and ethics such as honesty, integrity, caring and respecting others, etc.
- PC6.** follow and promote environmentally sustainable practices

#### *Becoming a Professional in the 21st Century*

To be competent, the user/individual on the job must be able to:

- PC7.** recognize the significance of 21st Century Skills for employment

**PC8.** practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life

**PC9.** adopt a continuous learning mindset for personal and professional development

#### *Basic English Skills*

To be competent, the user/individual on the job must be able to:

**PC10.** use English as a medium of formal and informal communication while dealing with topics of everyday conversation in different contexts

**PC11.** speak over the phone in English, in an audible manner, using appropriate greetings, opening, and closing statements both on personal and work front

**PC12.** read and understand routine information, notes, instructions, mails, letters etc. written in English

**PC13.** write short messages, notes, letters, e-mails etc., using accurate English

#### *Career Development & Goal Setting*

To be competent, the user/individual on the job must be able to:

**PC14.** identify career goals based on the skills, interests, knowledge, and personal attributes

**PC15.** prepare a career development plan with short- and long-term goals

#### *Communication Skills*

To be competent, the user/individual on the job must be able to:

**PC16.** follow verbal and non-verbal communication etiquette while communicating in professional and public settings

**PC17.** use active listening techniques for effective communication

**PC18.** communicate in writing using appropriate style and format based on formal or informal requirements

**PC19.** work collaboratively with others in a team

#### *Diversity & Inclusion*

To be competent, the user/individual on the job must be able to:

**PC20.** • ensure personal behaviour, conduct, and use appropriate communication by taking gender into consideration

**PC21.** empathize with a PwD and aid a PwD, if asked

**PC22.** escalate any issues related to sexual harassment at the workplace in accordance with the POSH Act

#### *Financial and Legal Literacy*

To be competent, the user/individual on the job must be able to:

**PC23.** identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.

**PC24.** carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook

**PC25.** identify common components of salary and compute income, expenses, taxes, investments etc

**PC26.** identify relevant rights and laws and use legal aids to fight against legal exploitation

#### *Essential Digital Skills*

To be competent, the user/individual on the job must be able to:

- PC27.** operate digital devices and use their features and applications securely and safely
- PC28.** carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.
- PC29.** display responsible online behaviour while using various social media platforms
- PC30.** create a personal email account, send and process received messages as per requirement
- PC31.** carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications
- PC32.** utilize virtual collaboration tools to work effectively

#### *Entrepreneurship*

To be competent, the user/individual on the job must be able to:

- PC33.** identify different types of Entrepreneurship and Enterprises
- PC34.** use research and networking skills to identify and assess opportunities for potential business
- PC35.** develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion
- PC36.** identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity

#### *Customer Service*

To be competent, the user/individual on the job must be able to:

- PC37.** identify different types of customers
- PC38.** identify and respond to customer requests and needs in a professional manner
- PC39.** use appropriate tools to collect customer feedback
- PC40.** follow appropriate hygiene and grooming standards

#### *Getting ready for apprenticeship & Jobs*

To be competent, the user/individual on the job must be able to:

- PC41.** create a professional Curriculum vitae (Résumé)
- PC42.** search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively
- PC43.** apply to identified job openings using offline /online methods as per requirement
- PC44.** answer questions politely, with clarity and confidence, during recruitment and selection
- PC45.** identify apprenticeship opportunities and register for it as per guidelines and requirements

### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- KU1.** need for employability skills
- KU2.** different learning and employability related portals
- KU3.** various constitutional and personal values
- KU4.** different environmentally sustainable practices and their importance
- KU5.** Twenty first (21st) century skills and their importance
- KU6.** how to use English language for effective verbal (face to face and telephonic) and written communication in formal and informal set up
- KU7.** importance of career development and setting long- and short-term goals

- KU8.** Do's and don'ts of effective communication
- KU9.** POSH Act
- KU10.** inclusivity and its importance
- KU11.** different types of disabilities and appropriate verbal and non-verbal communication and behaviour towards PwD
- KU12.** different types of financial institutes, products, and services
- KU13.** components of salary and how to compute income and expenditure
- KU14.** importance of maintaining safety and security in offline and online financial transactions
- KU15.** different legal rights and laws
- KU16.** different types of digital devices and the procedure to operate them safely and securely
- KU17.** how to create and operate an e- mail account
- KU18.** use applications such as word processors, spreadsheets etc.
- KU19.** different types of Enterprises and ways to identify business opportunities
- KU20.** types and needs of customers
- KU21.** how to apply for a job and prepare for an interview
- KU22.** apprenticeship scheme and the process of registering on apprenticeship portal

## **Generic Skills (GS)**

User/individual on the job needs to know how to:

- GS1.** read and write different types of documents/instructions/correspondence in English and other languages
- GS2.** communicate effectively using appropriate language in formal and informal settings
- GS3.** behave politely and appropriately with all to maintain effective work relationship
- GS4.** how to work in a virtual mode, using various technological platforms
- GS5.** perform calculations efficiently
- GS6.** solve problems effectively
- GS7.** pay attention to details
- GS8.** manage time efficiently
- GS9.** maintain hygiene and sanitization to avoid infection

## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	<b>1</b>	<b>1</b>	-	-
<b>PC1.</b> understand the significance of employability skills in meeting the current job market requirement and future of work	-	-	-	-
<b>PC2.</b> identify and explore learning and employability relevant portals	-	-	-	-
<b>PC3.</b> research about the different industries, job market trends, latest skills required and the available opportunities	-	-	-	-
<i>Constitutional values - Citizenship</i>	<b>2</b>	<b>1</b>	-	-
<b>PC4.</b> recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. for personal growth and the nation's progress	-	-	-	-
<b>PC5.</b> follow personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
<b>PC6.</b> follow and promote environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	<b>2</b>	<b>3</b>	-	-
<b>PC7.</b> recognize the significance of 21st Century Skills for employment	-	-	-	-
<b>PC8.</b> practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
<b>PC9.</b> adopt a continuous learning mindset for personal and professional development	-	-	-	-
<i>Basic English Skills</i>	<b>2</b>	<b>3</b>	-	-



<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>PC10.</b> use English as a medium of formal and informal communication while dealing with topics of everyday conversation in different contexts	-	-	-	-
<b>PC11.</b> speak over the phone in English, in an audible manner, using appropriate greetings, opening, and closing statements both on personal and work front	-	-	-	-
<b>PC12.</b> read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
<b>PC13.</b> write short messages, notes, letters, e-mails etc., using accurate English	-	-	-	-
<i>Career Development &amp; Goal Setting</i>	<b>1</b>	<b>2</b>	-	-
<b>PC14.</b> identify career goals based on the skills, interests, knowledge, and personal attributes	-	-	-	-
<b>PC15.</b> prepare a career development plan with short- and long-term goals	-	-	-	-
<i>Communication Skills</i>	<b>2</b>	<b>3</b>	-	-
<b>PC16.</b> follow verbal and non-verbal communication etiquette while communicating in professional and public settings	-	-	-	-
<b>PC17.</b> use active listening techniques for effective communication	-	-	-	-
<b>PC18.</b> communicate in writing using appropriate style and format based on formal or informal requirements	-	-	-	-
<b>PC19.</b> work collaboratively with others in a team	-	-	-	-
<i>Diversity &amp; Inclusion</i>	<b>1</b>	<b>2</b>	-	-
<b>PC20.</b> • ensure personal behaviour, conduct, and use appropriate communication by taking gender into • consideration	-	-	-	-
<b>PC21.</b> empathize with a PwD and aid a PwD, if asked	-	-	-	-

<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>PC22.</b> escalate any issues related to sexual harassment at the workplace in accordance with the POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	<b>2</b>	<b>3</b>	-	-
<b>PC23.</b> identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.	-	-	-	-
<b>PC24.</b> carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook	-	-	-	-
<b>PC25.</b> identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
<b>PC26.</b> identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	<b>2</b>	<b>3</b>	-	-
<b>PC27.</b> operate digital devices and use their features and applications securely and safely	-	-	-	-
<b>PC28.</b> carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.	-	-	-	-
<b>PC29.</b> display responsible online behaviour while using various social media platforms	-	-	-	-
<b>PC30.</b> create a personal email account, send and process received messages as per requirement	-	-	-	-
<b>PC31.</b> carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications	-	-	-	-
<b>PC32.</b> utilize virtual collaboration tools to work effectively	-	-	-	-
<i>Entrepreneurship</i>	<b>2</b>	<b>3</b>	-	-
<b>PC33.</b> identify different types of Entrepreneurship and Enterprises	-	-	-	-

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<b>PC34.</b> use research and networking skills to identify and assess opportunities for potential business	-	-	-	-
<b>PC35.</b> develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
<b>PC36.</b> identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	<b>1</b>	<b>2</b>	-	-
<b>PC37.</b> identify different types of customers	-	-	-	-
<b>PC38.</b> identify and respond to customer requests and needs in a professional manner	-	-	-	-
<b>PC39.</b> use appropriate tools to collect customer feedback	-	-	-	-
<b>PC40.</b> follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>2</b>	<b>4</b>	-	-
<b>PC41.</b> create a professional Curriculum vitae (Résumé)	-	-	-	-
<b>PC42.</b> search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
<b>PC43.</b> apply to identified job openings using offline /online methods as per requirement	-	-	-	-
<b>PC44.</b> answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
<b>PC45.</b> identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
<b>NOS Total</b>	<b>20</b>	<b>30</b>	-	-

## National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	DGT/VSQ/N0104
<b>NOS Name</b>	Employability Skills (120 Hours)
<b>Sector</b>	Cross Sectoral
<b>Sub-Sector</b>	Professional Skills
<b>Occupation</b>	Employability
<b>NSQF Level</b>	6
<b>Credits</b>	4
<b>Version</b>	1.0
<b>Last Reviewed Date</b>	27/05/2021
<b>Next Review Date</b>	27/05/2024
<b>NSQC Clearance Date</b>	27/05/2021

## ASC/N1465: Manage data extraction from the dealership entities

### Description

This NOS unit is about performing tasks related to the collection and extraction of data from various dealership entities for answering relevant business questions.

### Scope

The scope covers the following :

- Monitor assessment of project requirements
- Perform and monitor designing of project outline
- Support in selection of data integration platform to integrate the data from various department

### Elements and Performance Criteria

#### *Assessing project requirements*

To be competent, the user/individual on the job must be able to:

- PC1.** Support during evaluation of the project requirements to be catered with either visualization platforms or analytics and predictive modelling solutions
- PC2.**
  - Monitor and guide team during designing of data architecture for collection and extraction of data from
  - various departments using connectors and platforms
- PC3.** Identify the people required to execute the business analytics project requirements
- PC4.** Prepare the technology stack for the front end and back end of the analytics solution
- PC5.** Assess all organizational processes related to the use of data and analytics
- PC6.** Check that the existing setup is capable or not for data collection and analysis

#### *Perform and monitor designing of project outline*

To be competent, the user/individual on the job must be able to:

- PC7.** Support and prepare an outline of the project execution taking the business questions into consideration
- PC8.** Identify appropriate data attributes to be extracted from various departments
- PC9.** Prepare the timeline and resource requirements
- PC10.** Manage project by using appropriate project tracking tools and task prioritization for all team members
- PC11.**
  - Obtain the necessary approvals within the organization for data collection and extraction from various
  - departments

#### *Support in selection of data integration platform to integrate the data from various department*

To be competent, the user/individual on the job must be able to:

- PC12.**
  - Survey and identify the existing data integration platforms considering the application integration, data
  - integration and API (Application Program Interface) management criterion.

- PC13.** • Select the data integration platform with the capabilities like- data transformation, application connectors, file
- processing, routing, orchestration, event handling, stream processing, API management, no-vendor lock-in.
- PC14.** Design and create a data warehouse for easy consumption of data points for data analysts
- PC15.** Develop data pipelines using connectors to populate the data in the data warehouse

## **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- KU1.** Organizational policies, procedures, and guidelines that relate to designing and maintaining databases
- KU2.** Organizational policies and procedures for sharing data
- KU3.** Organizational policies and procedures for documenting databases architectures and backup mechanisms
- KU4.** Who to involve while designing and developing the database architecture and pipelines for the solution
- KU5.** Range of standard platforms and tools available and how to use them
- KU6.** Database connectors and application connectors for application-cloud communications
- KU7.** Updated internal and external cybersecurity regulations
- KU8.** Data warehouse fundamentals, planning, processes, schemes, terms and SQL queries

## **Generic Skills (GS)**

User/individual on the job needs to know how to:

- GS1.** communicate effectively at the workplace
- GS2.** attentively listen and comprehend the information given by the process managers
- GS3.** write observations and any work-related information in English/regional language
- GS4.** recognise a workplace problem and take suitable action
- GS5.** • analyse and apply the information gathered from observation, experience, reasoning or communication to
- act efficiently
- GS6.** complete the assigned tasks in a timely and efficient manner
- GS7.** coordinate with shop floor workers and team for installing the new systems efficiently

## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Assessing project requirements</i>	<b>15</b>	<b>15</b>	-	<b>7</b>
<b>PC1.</b> Support during evaluation of the project requirements to be catered with either visualization platforms or analytics and predictive modelling solutions	3	3	-	1
<b>PC2.</b> <ul style="list-style-type: none"> <li>• Monitor and guide team during designing of data architecture for collection and extraction of data from various departments using connectors and platforms</li> </ul>	2	2	-	1
<b>PC3.</b> Identify the people required to execute the business analytics project requirements	2	2	-	1
<b>PC4.</b> Prepare the technology stack for the front end and back end of the analytics solution	2	2	-	1
<b>PC5.</b> Assess all organizational processes related to the use of data and analytics	2	2	-	1
<b>PC6.</b> Check that the existing setup is capable or not for data collection and analysis	4	4	-	2
<i>Perform and monitor designing of project outline</i>	<b>16</b>	<b>16</b>	-	<b>9</b>
<b>PC7.</b> Support and prepare an outline of the project execution taking the business questions into consideration	3	3	-	2
<b>PC8.</b> Identify appropriate data attributes to be extracted from various departments	3	3	-	2
<b>PC9.</b> Prepare the timeline and resource requirements	3	3	-	2
<b>PC10.</b> Manage project by using appropriate project tracking tools and task prioritization for all team members	4	4	-	2
<b>PC11.</b> <ul style="list-style-type: none"> <li>• Obtain the necessary approvals within the organization for data collection and extraction from various departments</li> </ul>	3	3	-	1

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Support in selection of data integration platform to integrate the data from various department</i>	9	9	-	4
<b>PC12.</b> <ul style="list-style-type: none"> <li>Survey and identify the existing data integration platforms considering the application integration, data</li> <li>integration and API (Application Program Interface) management criterion.</li> </ul>	2	2	-	1
<b>PC13.</b> <ul style="list-style-type: none"> <li>Select the data integration platform with the capabilities like- data transformation, application connectors, file</li> <li>processing, routing, orchestration, event handling, stream processing, API management, no-vendor lock-in.</li> </ul>	3	3	-	1
<b>PC14.</b> Design and create a data warehouse for easy consumption of data points for data analysts	2	2	-	1
<b>PC15.</b> Develop data pipelines using connectors to populate the data in the data warehouse	2	2	-	1
<b>NOS Total</b>	<b>40</b>	<b>40</b>	-	<b>20</b>



## National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	ASC/N1465
<b>NOS Name</b>	Manage data extraction from the dealership entities
<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Automotive Vehicle Service
<b>Occupation</b>	Technical Service & Repair
<b>NSQF Level</b>	6
<b>Credits</b>	2
<b>Version</b>	1.0
<b>Next Review Date</b>	NA

## **ASC/N1466: Prepare and analyse dealerships data by using analytical tools**

### **Description**

This NOS unit is about performing exploratory data analysis on the data extracted, deciding which data attributes are required for analytics and analysing the extracted attributes using excel/ open-source python libraires.

### **Scope**

The scope covers the following :

- Identify business goals for which data need to be analysed,
- Support in preparation of data
- Perform statistical analysis of data

### **Elements and Performance Criteria**

#### *Identify business goal for which data need to be analysed*

To be competent, the user/individual on the job must be able to:

- PC1.** Define business problems and business goals which can be achieved using available datasets from the manager
- PC2.** Select the relevant source of data to define dealership business goal
- PC3.** Validate the criterion in the business problem with domain person in dealerships

#### *Support in preparation of data*

To be competent, the user/individual on the job must be able to:

- PC4.** Support and create a set of metadata for the selected dataset
- PC5.** Identify the attributes or columns in the datasets which are most significant from analysis perspective
- PC6.** Perform exploratory data analysis to check for missing or duplicate data

#### *Perform statistical analysis of data*

To be competent, the user/individual on the job must be able to:

- PC7.** Perform descriptive statistical analysis on the data by following SOP
- PC8.** Perform inferential statistics analysis on the data by following SOP
- PC9.** Prepare list of highly correlated attributes
- PC10.** Find correlation amongst the selected attributes of the data and plot their heatmap

### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- KU1.** Organizational policies, procedures, and guidelines that relate to designing and maintaining databases
- KU2.** Organizational policies and procedures for sharing data

- KU3.** Organizational policies and procedures for documenting databases architectures and backup mechanisms
- KU4.** Descriptive and Inferential statistics for creating charts and predictive analytics modelling
- KU5.** Types of data wrangling and data cleaning methods to create visualization
- KU6.** Suitable documentation of the organization for the metadata creation
- KU7.** Aggregate the charts to create a dashboard to address the business problem
- KU8.** Addition of filters and chart tips to make the dashboard interactive

## **Generic Skills (GS)**

User/individual on the job needs to know how to:

- GS1.** communicate effectively at the workplace
- GS2.** attentively listen and comprehend the information given by the process managers
- GS3.** write observations and any work-related information in English/regional language
- GS4.** recognise a workplace problem and take suitable action
- GS5.**
  - analyse and apply the information gathered from observation, experience, reasoning or communication to
  - act efficiently
- GS6.** complete the assigned tasks in a timely and efficient manner
- GS7.** coordinate with shop floor workers and team for installing the new systems efficiently

## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Identify business goal for which data need to be analysed</i>	<b>11</b>	<b>11</b>	-	<b>6</b>
<b>PC1.</b> Define business problems and business goals which can be achieved using available datasets from the manager	3	3	-	2
<b>PC2.</b> Select the relevant source of data to define dealership business goal	4	4	-	2
<b>PC3.</b> Validate the criterion in the business problem with domain person in dealerships	4	4	-	2
<i>Support in preparation of data</i>	<b>16</b>	<b>16</b>	-	<b>7</b>
<b>PC4.</b> Support and create a set of metadata for the selected dataset	6	6	-	3
<b>PC5.</b> Identify the attributes or columns in the datasets which are most significant from analysis perspective	5	5	-	2
<b>PC6.</b> Perform exploratory data analysis to check for missing or duplicate data	5	5	-	2
<i>Perform statistical analysis of data</i>	<b>13</b>	<b>13</b>	-	<b>7</b>
<b>PC7.</b> Perform descriptive statistical analysis on the data by following SOP	3	3	-	2
<b>PC8.</b> Perform inferential statistics analysis on the data by following SOP	3	3	-	2
<b>PC9.</b> Prepare list of highly correlated attributes	3	3	-	1
<b>PC10.</b> Find correlation amongst the selected attributes of the data and plot their heatmap	4	4	-	2
<b>NOS Total</b>	<b>40</b>	<b>40</b>	-	<b>20</b>

## National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	ASC/N1466
<b>NOS Name</b>	Prepare and analyse dealerships data by using analytical tools
<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Automotive Vehicle Service
<b>Occupation</b>	Technical Service & Repair
<b>NSQF Level</b>	6
<b>Credits</b>	3
<b>Version</b>	1.0
<b>Next Review Date</b>	NA

## **ASC/N1467: Develop solutions for complex business problems in dealerships**

### **Description**

This NOS unit is about developing machine learning models using the extracted data and making predictive analytics solutions for complex business problems in dealerships. It also involves project management using project tracking tools and task prioritization for all team members

### **Scope**

The scope covers the following :

- Execute training phase in the machine learning project lifecycle
- Execute testing phase in the machine learning project lifecycle
- Deployment of the developed analytics model solution into sales and support
- Deployment of the analytics model solution into production line

### **Elements and Performance Criteria**

#### *Execute training phase in the machine learning project lifecycle*

To be competent, the user/individual on the job must be able to:

- PC1.** Select and install relevant libraries and tools for model making
- PC2.** Split and prepare the dataset into training, validation and testing sets
- PC3.**
  - Configure hyperparameters for the selected model, establish the training pipelines and execute the training
  - phase
- PC4.** Store the model and network parameters to be used in the testing phase
- PC5.** Prevent underfitting and overfitting of the model
- PC6.** Solve the imbalanced dataset problem when the samples from minority class are very few
- PC7.** Evaluate the training performance of the machine learning model for training and validation accuracy

#### *Execute testing phase in the machine learning project lifecycle*

To be competent, the user/individual on the job must be able to:

- PC8.** Test the models with testing datasets
- PC9.** Ensure the inference time per sample is as per the business requirement
- PC10.** . Evaluate the testing performance of the machine learning model for testing accuracy

#### *Deployment of the developed analytics model solution into sales and support*

To be competent, the user/individual on the job must be able to:

- PC11.** Develop a front-end application to fetch inputs from the user and consume developed model for inference
- PC12.** Verify the sales and support performance of the machine learning model
- PC13.** Analyse performance of the machine learning model and prepare feedback on the wrong predictions
- PC14.** Implement the feedback back to the training phase and retrain the machine learning model

### *Deployment of the analytics model solution into production line*

To be competent, the user/individual on the job must be able to:

- PC15.** • Select relevant libraries and machine learning operations (MLOPS) tools and packages for deploying the
  - analytics model solution into sales and support
- PC16.** Install the selected libraries and tools for machine learning operations tasks
- PC17.** • Setup the continuous training, continuous integration, and continuous delivery pipelines for the developed
  - machine learning models
- PC18.** Monitor the analytics model solution performance in the deployment phase
- PC19.** Carry out commissioning of the end-to-end system

### **Knowledge and Understanding (KU)**

The individual on the job needs to know and understand:

- KU1.** Organizational policies, procedures, and guidelines that relate to designing and maintaining databases
- KU2.** Organizational policies and procedures for sharing data
- KU3.** Organizational policies and procedures for documenting databases architectures and backup mechanisms
- KU4.** Who to involve while developing the different stages in the machine learning lifecycle
- KU5.** Descriptive and inferential statistics for creating charts and predictive analytics modelling
- KU6.** Types of data wrangling and data cleaning methods to create visualization
- KU7.** Suitable documentation of the organization for the metadata creation
- KU8.** Updated internal and external network regulations
- KU9.** How to perform network assessments
- KU10.** How to diagnose and resolve underfitting, overfitting and imbalanced dataset issues
- KU11.** • How to use different machine learning algorithms for specific functions like regression, classification and
  - clustering
- KU12.** • How to use python programming constructs for developing machine learning models using open-source
  - libraries like for example, scikit-learn
- KU13.** How to develop necessary front end to consume the developed analytics solution
- KU14.** How to use MLOPS libraries and frameworks to ensure continuous training and deployment.
- KU15.** How to implement MLOPS in a cloud-based platform if required
- KU16.** How to make an API interface for the developed machine learning model in Python using REST API framework

### **Generic Skills (GS)**

User/individual on the job needs to know how to:

- GS1.** communicate effectively at the workplace

- GS2.** attentively listen and comprehend the information given by the process managers
- GS3.** write observations and any work-related information in English/regional language
- GS4.** recognise a workplace problem and take suitable action
- GS5.**
  - analyse and apply the information gathered from observation, experience, reasoning or communication to
  - act efficiently
- GS6.** complete the assigned tasks in a timely and efficient manner
- GS7.** coordinate with shop floor workers and team for installing the new systems efficiently



## Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Execute training phase in the machine learning project lifecycle</i>	<b>16</b>	<b>16</b>	-	<b>7</b>
<b>PC1.</b> Select and install relevant libraries and tools for model making	2	2	-	1
<b>PC2.</b> Split and prepare the dataset into training, validation and testing sets	3	3	-	1
<b>PC3.</b> • Configure hyperparameters for the selected model, establish the training pipelines and execute the training • phase	3	3	-	1
<b>PC4.</b> Store the model and network parameters to be used in the testing phase	2	2	-	1
<b>PC5.</b> Prevent underfitting and overfitting of the model	2	2	-	1
<b>PC6.</b> Solve the imbalanced dataset problem when the samples from minority class are very few	2	2	-	1
<b>PC7.</b> Evaluate the training performance of the machine learning model for training and validation accuracy	2	2	-	1
<i>Execute testing phase in the machine learning project lifecycle</i>	<b>5</b>	<b>5</b>	-	<b>3</b>
<b>PC8.</b> Test the models with testing datasets	2	2	-	1
<b>PC9.</b> Ensure the inference time per sample is as per the business requirement	1	1	-	1
<b>PC10.</b> . Evaluate the testing performance of the machine learning model for testing accuracy	2	2	-	1
<i>Deployment of the developed analytics model solution into sales and support</i>	<b>8</b>	<b>8</b>	-	<b>4</b>
<b>PC11.</b> Develop a front-end application to fetch inputs from the user and consume developed model for inference	2	2	-	1

<b>Assessment Criteria for Outcomes</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>
<b>PC12.</b> Verify the sales and support performance of the machine learning model	2	2	-	1
<b>PC13.</b> Analyse performance of the machine learning model and prepare feedback on the wrong predictions	2	2	-	1
<b>PC14.</b> Implement the feedback back to the training phase and retrain the machine learning model	2	2	-	1
<i>Deployment of the analytics model solution into production line</i>	<b>11</b>	<b>11</b>	-	<b>6</b>
<b>PC15.</b> <ul style="list-style-type: none"> <li>• Select relevant libraries and machine learning operations (MLOPS) tools and packages for deploying the</li> <li>• analytics model solution into sales and support</li> </ul>	2	2	-	1
<b>PC16.</b> Install the selected libraries and tools for machine learning operations tasks	2	2	-	1
<b>PC17.</b> <ul style="list-style-type: none"> <li>• Setup the continuous training, continuous integration, and continuous delivery pipelines for the developed</li> <li>• machine learning models</li> </ul>	3	3	-	2
<b>PC18.</b> Monitor the analytics model solution performance in the deployment phase	2	2	-	1
<b>PC19.</b> Carry out commissioning of the end-to-end system	2	2	-	1
<b>NOS Total</b>	<b>40</b>	<b>40</b>	-	<b>20</b>

## National Occupational Standards (NOS) Parameters

<b>NOS Code</b>	ASC/N1467
<b>NOS Name</b>	Develop solutions for complex business problems in dealerships
<b>Sector</b>	Automotive
<b>Sub-Sector</b>	Automotive Vehicle Service
<b>Occupation</b>	Technical Service & Repair
<b>NSQF Level</b>	6
<b>Credits</b>	3
<b>Version</b>	1.0
<b>Next Review Date</b>	NA

## Assessment Guidelines and Assessment Weightage

### Assessment Guidelines

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 the proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on the knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for the theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training center based on these criteria.
6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

**Minimum Aggregate Passing % at QP Level : 70**

(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

**Assessment Weightage**

Compulsory NOS

<b>National Occupational Standards</b>	<b>Theory Marks</b>	<b>Practical Marks</b>	<b>Project Marks</b>	<b>Viva Marks</b>	<b>Total Marks</b>	<b>Weightage</b>
ASC/N9813.Manage work and resources (Service)	50	30	-	20	100	15
DGT/VSQ/N0104.Employability Skills (120 Hours)	20	30	-	-	50	10
ASC/N1465.Manage data extraction from the dealership entities	40	40	-	20	100	25
ASC/N1466.Prepare and analyse dealerships data by using analytical tools	40	40	-	20	100	25
ASC/N1467.Develop solutions for complex business problems in dealerships	40	40	-	20	100	25
<b>Total</b>	<b>190</b>	<b>180</b>	<b>-</b>	<b>80</b>	<b>450</b>	<b>100</b>

## Acronyms

<b>NOS</b>	National Occupational Standard(s)
<b>NSQF</b>	National Skills Qualifications Framework
<b>QP</b>	Qualifications Pack
<b>TVET</b>	Technical and Vocational Education and Training
<b>NOS</b>	National Occupational Standard(s)
<b>NSQF</b>	National Skills Qualifications Framework
<b>QP</b>	Qualifications Pack
<b>TVET</b>	Technical and Vocational Education and Training
<b>PC</b>	Performance Criteria
<b>KU</b>	Knowledge and Understanding
<b>GS</b>	Generic Skills
<b>API</b>	Application Program Interface
<b>SQL</b>	Structured Query Language
<b>NOS</b>	National Occupational Standard(s)

## Glossary

<b>Sector</b>	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standards (NOS)</b>	NOS are occupational standards which apply uniquely in the Indian context.
<b>Qualifications Pack (QP)</b>	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	Scope is a 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 quality of performance required.
<b>Knowledge and Understanding (KU)</b>	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.

<b>Organisational Context</b>	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
<b>Technical Knowledge</b>	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
<b>Core Skills/ Generic Skills (GS)</b>	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment 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.
<b>Electives</b>	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
<b>Options</b>	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.
<b>Sector</b>	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
<b>Sub-sector</b>	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
<b>Occupation</b>	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
<b>Job role</b>	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
<b>Occupational Standards (OS)</b>	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
<b>Performance Criteria (PC)</b>	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
<b>National Occupational Standard</b>	NOS are occupational standards which apply uniquely in the Indian context.

<b>Qualifications Pack (QP)</b>	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
<b>Unit Code</b>	Unit code is a unique identifier for an Occupational Standard, which is denoted by an N
<b>Unit Title</b>	Unit title gives a clear overall statement about what the incumbent should be able to do.
<b>Description</b>	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.
<b>Scope</b>	Scope is a 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 quality of performance required.
<b>Knowledge and Understanding</b>	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
<b>Organisational Context</b>	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.