

Qualification Pack



Ikkat Artisan

QP Code: TSC/Q7404

Version: 1.0

NSQF Level: 4

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TSC/Q7404: Ikkat Artisan

Brief Job Description

The ikkat artisan is responsible for designing, dyeing and weaving by maintaining tools, health, safety and security, and complying with the workplace requirements in the handloom sector. The person can either work as a freelancer or seek employment in an handloom cooperative/organization.

Personal Attributes

Needs to have basic knowledge of Ikkat designs, yarn dyeing and weaving techniques, good aesthetic sense, patience, precision, an eye for detail, and an alert mind. The Ikkat artisan also needs to understand the market trend and demand for ikkat designs.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [TSC/N7404: Design and dye yarn bunch for Ikkat weaving](#)
2. [TSC/N7405: Carry out pre-weaving activities for Ikkat weaving](#)
3. [TSC/N7406: Operate the loom to produce Ikkat fabric](#)
4. [TSC/N7407: Contribute to achieve quality in Ikkat weaving](#)
5. [TSC/N9005: Maintain work area and tools in handloom sector](#)
6. [TSC/N9006: Working in a team in handloom sector](#)
7. [TSC/N9007: Maintain health, safety and security at work place in handloom sector](#)
8. [TSC/N9008: Comply with work place requirements in handloom sector](#)

Qualification Pack (QP) Parameters

Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Designing
Country	India
NSQF Level	4
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7318.58

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Minimum Educational Qualification & Experience	Basic Literacy and Numeracy (with basic knowledge of weaving)
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	16 Years
Last Reviewed On	03/05/2017
Next Review Date	03/05/2021
Deactivation Date	03/05/2021
NSQC Approval Date	22/08/2019
Version	1.0

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TSC/N7404: Design and dye yarn bunch for Ikkat weaving

Description

The unit deals with necessary skills, knowledge and attributes required by an Ikkat artisan to design and dye yarn bunch

Scope

This unit/task covers the following:

- Carry out dyeing process for Ikkat weaving

Elements and Performance Criteria

Carry out dyeing process for Ikkat weaving

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

1. Create/collect design on the graph paper as per imagination/market trend Products: Saree, blankets, mats, carpets, bed sheets, pillow covers, furnishing cloths, etc.
2. develop single or multi-colour dyeing pattern as per the design
3. select material from various types of fabric as per requirement Types: Cotton, silk, etc.
4. prepare the required number of warp/weft yarn bunch based on design requirement
5. spread the warp yarn with lease horizontally by fixing both the ends on wall, with required height from the ground level with intermediate support under the yarn bunch to avoid slackness
6. set distance between the wooden block for weft yarn spreading
7. spread the weft yarn with lease between the wooden board
8. mark the design using Sketch/Pen over the warp/ weft yarn bunch based on design repeat
9. mark for reference lines on both sides of yarn bunch in case of weft yarn
10. select and tie the warp/weft threads with rubber as per the markings made on yarn bunch
11. carry out pre-dyeing operation of the silk/cotton yarns using appropriate materials
12. identify different types of dyes depending upon the types of yarns Types: Silk, natural, reactive, etc.
13. dye the warp/weft threads using tie & dye technique to create the desired pattern
14. carry out the dyeing process in sequence based on number of colors need to be dyed for warp/ weft yarns
15. interchange and tie the previously dyed portion for next colour dyeing
16. make sure that yarn should not be allowed for complete drying till completion of dyeing of all the remaining colours
17. wash the threads after dyeing and allow it for dry in open air
18. bundle and treat the threads with suitable chemicals for color fastness if needed
19. re-wound the warp yarn in sectional warping drum to produce weavers beam
20. re-wound the weft yarn in wrap reel and convert it into hank form to produce pirn
21. segregate the weft yarn based on order/colour as per design to be woven

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Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** policies and procedures followed in the handloom sector relevant to own employment and performance conditions
- KU2.** relevant health and safety requirements applicable in the work place
- KU3.** importance of following health, hygiene, safety and quality standards and the impact of non-compliance of the standards on consumers and the business
- KU4.** own job role and responsibilities and sources for information pertaining to employment terms, compensation, job role and responsibilities
- KU5.** relevant people and their responsibilities within the work area
- KU6.** various categories of people that one is required to communicate and coordinate within the organization
- KU7.** various types of Ikkat designs like warp way Ikkat, weft way Ikkat and combined effect
- KU8.** types of fabrics for Ikkat weaving Types: Cotton and silk
- KU9.** Various fabric processing methods before weaving Methods: Degumming/scouring, after treatment to improve colour fastness, drying, dyeing, etc.
- KU10.** different dyeing practices to produce warp way Ikkat, weft way Ikkat and combined Ikkat designs
- KU11.** different types of materials used for degumming and colour fast treatment
- KU12.** various types of dyes and dyeing methods
- KU13.** tools and materials used for dyeing
- KU14.** fabric parameters like EPI, PPI, fabric width etc.
- KU15.** warping process
- KU16.** weft winding
- KU17.** basic arithmetic and numerical calculations to count the yarns
- KU18.** leasing procedure of yarn

Generic Skills (GS)

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

- GS1.** write local or English language for recording production, quality related information, numbering, and maintenance of related information and materials, etc.
- GS2.** read to differentiate the various materials used in the process
- GS3.** read and correctly interpret own notes written in local or English language
- GS4.** communicate with co-workers appropriately
- GS5.** listen carefully
- GS6.** talk effectively to convey information succinctly and unequivocally
- GS7.** take decision with systematic course of actions and /or response
- GS8.** decide the material of the fabric for Ikkat designs
- GS9.** select the style of Ikkat designs

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- GS10.** plan and organize own work in a way that all activities are completed in time and as per specifications
- GS11.** interpret work requirements and other designing related specifications correctly
- GS12.** deliver quality output and maintain long term business relationship with customers
- GS13.** determine timely correction of errors to prevent redoing of work
- GS14.** analyze the market needs and paint new and innovative designs

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out dyeing process for Ikkat weaving</i>	60	140	-	-
1. Create/collect design on the graph paper as per imagination/market trend Products: Saree, blankets, mats, carpets, bed sheets, pillow covers, furnishing cloths, etc.	3	7	-	-
2. develop single or multi-colour dyeing pattern as per the design	3	7	-	-
3. select material from various types of fabric as per requirement Types: Cotton, silk, etc.	3	7	-	-
4. prepare the required number of warp/weft yarn bunch based on design requirement	5	10	-	-
5. spread the warp yarn with lease horizontally by fixing both the ends on wall, with required height from the ground level with intermediate support under the yarn bunch to avoid slackness	3	7	-	-
6. set distance between the wooden block for weft yarn spreading	3	7	-	-
7. spread the weft yarn with lease between the wooden board	3	7	-	-
8. mark the design using Sketch/Pen over the warp/ weft yarn bunch based on design repeat	4	11	-	-
9. mark for reference lines on both sides of yarn bunch in case of weft yarn	3	7	-	-
10. select and tie the warp/weft threads with rubber as per the markings made on yarn bunch	3	7	-	-
11. carry out pre-dyeing operation of the silk/cotton yarns using appropriate materials	3	7	-	-
12. identify different types of dyes depending upon the types of yarns Types: Silk, natural, reactive, etc.	3	7	-	-
13. dye the warp/weft threads using tie & dye technique to create the desired pattern	3	7	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
14. carry out the dyeing process in sequence based on number of colors need to be dyed for warp/ weft yarns	1	3	-	-
15. interchange and tie the previously dyed portion for next colour dyeing	1	2	-	-
16. make sure that yarn should not be allowed for complete drying till completion of dyeing of all the remaining colours	1	2	-	-
17. wash the threads after dyeing and allow it for dry in open air	3	7	-	-
18. bundle and treat the threads with suitable chemicals for color fastness if needed	3	7	-	-
19. re-wound the warp yarn in sectional warping drum to produce weavers beam	3	7	-	-
20. re-wound the weft yarn in wrap reel and convert it into hank form to produce pirn	3	7	-	-
21. segregate the weft yarn based on order/colour as per design to be woven	3	7	-	-
NOS Total	60	140	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	TSC/N7404
NOS Name	Design and dye yarn bunch for Ikkat weaving
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Designing
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	03/05/2017
Next Review Date	03/05/2019
NSQC Clearance Date	

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TSC/N7405: Carry out pre-weaving activities for Ikkat weaving

Description

This unit provides performance criteria, knowledge and understanding and skills and abilities required to carry out pre-weaving operations for Ikkat weaving. for Ikkat weaving

Scope

This unit/task covers the following:

- Check and ensure pre-loom activities
- Analyse the weave design and place the pirn

Elements and Performance Criteria

Check and ensure preloom activities

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

1. gait the warp sheet properly and keep the warp sheet in proper tension
2. adjust the shedding pedals, picking ropes for proper tightness and beat up sley for proper working
3. adjust correct dead weight for warp beam and correct gear wheel for take-up teeth
4. check the condition of the warp beam, for cross ends, ends pulling out particularly at the selvedge
5. check the cleanliness of the machines and other work areas
6. ensure any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas
7. ensure that the attached warp is drafted and dented as per the instructions and design specifications provided
8. keep the number of shuttles required ready in good condition and its loading with proper color of pirns
9. check the availability of the filled pirns and the condition of the same
10. check the tip of the shuttle
11. attach the free end of warp with cloth beam properly
12. place the filled pirns according to the order of the design in case of weft way Ikkat design and combined warp and weft way Ikkat designs

Analyse the weave design and place the pirn

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

13. read the given design
14. analyse and interpret the given design (plain or its variations) which needs to be woven
15. place the filled pirns in the shuttle properly

Knowledge and Understanding (KU)

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The individual on the job needs to know and understand:

- KU1.** the cooperative society/NGO/SHG/cluster policies, procedures, guidelines and standards for quality
- KU2.** safe working practices and cooperative society/NGO/SHG procedures
- KU3.** quality systems and other processes practiced in the cooperative society/NGO/SHG
- KU4.** details of the job role and responsibilities
- KU5.** limits of personal responsibility
- KU6.** types of quality issues
- KU7.** documenting procedure, if applicable
- KU8.** the cooperative society/NGO/SHG tools, templates and processes for operations in production
- KU9.** responsibilities under health, safety and environmental legislation, if provided by NGO/SHG/Cooperative Society
- KU10.** guidelines for storage and disposal of waste materials
- KU11.** possible hazards associated with the machines and the safety precautions that must be taken
- KU12.** documentation formats
- KU13.** different parts of the handloom
- KU14.** different types of fiber, yarn, count, twist etc.
- KU15.** loom dimensions and other specifications
- KU16.** types of basic weavesplain and its variations
- KU17.** complete knowledge about fabric parameters currently running on loom like EPI, PPI, design repeat, width, Length of fabric need to be produced per design etc.
- KU18.** technical terms associated with all pre-loom operations
- KU19.** types of tools and equipment used
- KU20.** step-by-step process flow involved in the pre-loom operations
- KU21.** causes for fabric defects due to improper pre-loom activities and defective loom
- KU22.** methods to repair the loom
- KU23.** frequent repairs on loom

Generic Skills (GS)

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

- GS1.** write in local language
- GS2.** read and comprehend written instructions
- GS3.** listen effectively and orally communicate information accurately
- GS4.** ask for clarification and advice from others
- GS5.** follow rule-based decision-making processes
- GS6.** make decisions on a suitable course of action or response
- GS7.** plan and organize your work to achieve targets and deadlines

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- GS8.** avoid absenteeism
- GS9.** be punctual
- GS10.** work in discipline
- GS11.** act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- GS12.** apply problem-solving approaches in different situations
- GS13.** seek clarification on problems from others
- GS14.** analyze data and activities
- GS15.** pass on relevant information to others
- GS16.** provide opinions on work in a detailed and constructive way
- GS17.** apply balanced judgment to different situations

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Check and ensure preloom activities</i>	55	100	-	-
1. gait the warp sheet properly and keep the warp sheet in proper tension	5	20	-	-
2. adjust the shedding pedals, picking ropes for proper tightness and beat up sley for proper working	4	6	-	-
3. adjust correct dead weight for warp beam and correct gear wheel for take-up teeth	4	6	-	-
4. check the condition of the warp beam, for cross ends, ends pulling out particularly at the selvage	4	6	-	-
5. check the cleanliness of the machines and other work areas	4	6	-	-
6. ensure any spare/raw material/ tool / fabric/ any other material are thrown under the machines or in the other work areas	4	6	-	-
7. ensure that the attached warp is drafted and dented as per the instructions and design specifications provided	6	9	-	-
8. keep the number of shuttles required ready in good condition and its loading with proper color of pirns	5	10	-	-
9. check the availability of the filled pirns and the condition of the same	4	6	-	-
10. check the tip of the shuttle	4	6	-	-
11. attach the free end of warp with cloth beam properly	5	10	-	-
12. place the filled pirns according to the order of the design in case of weft way Ikkat design and combined warp and weft way Ikkat designs	6	9	-	-
<i>Analyse the weave design and place the pirn</i>	13	32	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
13. read the given design	5	15	-	-
14. analyse and interpret the given design (plain or its variations) which needs to be woven	5	10	-	-
15. place the filled pirns in the shuttle properly	3	7	-	-
NOS Total	68	132	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	TSC/N7405
NOS Name	Carry out pre-weaving activities for Ikkat weaving
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Designing
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	03/05/2017
Next Review Date	03/05/2019
NSQC Clearance Date	

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TSC/N7406: Operate the loom to produce Ikkat fabric

Description

This unit provides performance criteria, knowledge and understanding and skills and abilities required to carry out basic weaving operations of loom to produce Ikkat fabric

Scope

This unit/task covers the following:

- Carry out the weaving process
- Ensure quality is maintained

Elements and Performance Criteria

Carry out the weaving process

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

1. carry-out the primary weaving operations such as shedding, picking, beating, etc
2. carry-out the secondary weaving operation like take-up and let-off
3. carry out the auxiliary weaving operation like temple motion, shuttle changing, etc
4. refer and follow the specifications given by Master weaver in case of any doubt
5. use the correct tools and materials
6. ensure that proper tension on warp is maintained
7. check that the materials to be used are free from faults, in case of any, repair fault

Ensure quality is maintained

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

8. conform to the specified quality standards of weaving
9. identify any damaged work and rectify it
10. leave the work area safe and secure when work is complete free from hazards
11. amend warp breaks and draw ends through herald wires and reed based on fabric structure
12. amend for weft breaks, and match with the exact continuous repeat in case of weft way Ikkat design
13. ensure the reference mark made on weft bunch on both sides must coincide with each pick
14. match the each pick by hand in case of deviation occurred while pick insertion
15. ensure the correct order of weft pirn is used while refilling
16. use different color of weft pirn wherever necessary based on instruction given

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the cooperative society/NGO/SHG/cluster policies, procedures, guidelines and standards for quality

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- KU2.** safe working practices and cooperative society/NGO/SHG procedures
- KU3.** quality systems and other processes practiced in the cooperative society/NGO/SHG/cluster
- KU4.** details of the job role and responsibilities
- KU5.** limits of personal responsibility
- KU6.** types of problems with quality and how to report them to concerned person
- KU7.** documenting procedure, if any
- KU8.** the cooperative society/NGO/SHG tools, templates and processes for operations in production
- KU9.** responsibilities under health, safety and environmental legislation
- KU10.** guidelines for storage and disposal of waste materials
- KU11.** possible hazards associated with the machines and the safety precautions that must be taken
- KU12.** functions of different parts of the handloom
- KU13.** operational knowledge for undertaking primary and secondary weaving operations using handlooms
- KU14.** use of design specification sheet and understanding the technical requirements of the fabric to be woven
- KU15.** knowledge on basic weaves
- KU16.** different types of defects/quality errors/issues and methods/ways to rectify them
- KU17.** characteristics of the yarns to be used for handloom weaving and how they differ
- KU18.** common hazards in the work area and work place procedures for dealing with them
- KU19.** frequent repairs on loom
- KU20.** fabric parameters currently running on loom like EPI, PPI, design repeat, width, length of fabric need to be produced per design etc

Generic Skills (GS)

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

- GS1.** write in local language
- GS2.** read and comprehend written instructions
- GS3.** listen effectively and orally communicate information accurately
- GS4.** ask for clarification and advice from others
- GS5.** follow rule-based decision-making processes
- GS6.** make decisions on a suitable course of action or response
- GS7.** plan and organize your work to achieve targets and deadlines
- GS8.** avoid absenteeism
- GS9.** be punctual
- GS10.** work in discipline
- GS11.** act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- GS12.** apply problem-solving approaches in different situations

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- GS13.** seek clarification on problems from others
- GS14.** analyze data and activities
- GS15.** pass on relevant information to others
- GS16.** provide opinions on work in a detailed and constructive way
- GS17.** apply balanced judgment to different situations

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Carry out the weaving process</i>	27	73	-	-
1. carry-out the primary weaving operations such as shedding, picking, beating, etc	5	15	-	-
2. carry-out the secondary weaving operation like take-up and let-off	5	15	-	-
3. carry out the auxiliary weaving operation like temple motion, shuttle changing, etc	5	15	-	-
4. refer and follow the specifications given by Master weaver in case of any doubt	3	7	-	-
5. use the correct tools and materials	3	7	-	-
6. ensure that proper tension on warp is maintained	3	7	-	-
7. check that the materials to be used are free from faults, in case of any, repair fault	3	7	-	-
<i>Ensure quality is maintained</i>	29	71	-	-
8. conform to the specified quality standards of weaving	3	7	-	-
9. identify any damaged work and rectify it	3	7	-	-
10. leave the work area safe and secure when work is complete free from hazards	3	7	-	-
11. amend warp breaks and draw ends through herald wires and reed based on fabric structure	4	11	-	-
12. amend for weft breaks, and match with the exact continuous repeat in case of weft way Ikkat design	4	11	-	-
13. ensure the reference mark made on weft bunch on both sides must coincide with each pick	3	7	-	-
14. match the each pick by hand in case of deviation occurred while pick insertion	3	7	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
15. ensure the correct order of weft pirn is used while refilling	3	7	-	-
16. use different color of weft pirn wherever necessary based on instruction given	3	7	-	-
NOS Total	56	144	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	TSC/N7406
NOS Name	Operate the loom to produce Ikkat fabric
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Designing
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	03/05/2017
Next Review Date	03/05/2019
NSQC Clearance Date	

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TSC/N7407: Contribute to achieve quality in Ikkat weaving

Description

This unit provides performance criteria, knowledge and understanding and skills and abilities required while undertaking Ikkat weaving to ensure that the woven fabrics meet specifications

Scope

This unit/task covers the following: This unit/task covers the following:

- Contribute to achieving the quality in Ikkat weaving related operations

Elements and Performance Criteria

Contribute to achieving the quality in Ikkat weaving related operations

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

1. identify and use raw materials as per the specifications provided
2. identify faulty materials and component parts and get them rectified
3. make adjustments promptly to ensure the hand-woven fabric matches the Ikkat design specification either in warp way , weft way of combined
4. carry out work safely and at a rate which maintains required work flow
5. carry out quality checks at specified intervals (after each weft insertion) according to design specifications
6. apply the allowed tolerances
7. identify materials and components which can cause crease, stain and damage
8. ensure the correct order of dyed material is used as weft feed material

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** the cooperative society/NGO/SHG/cluster policies, procedures, guidelines and standards for quality
- KU2.** safe working practices and cooperative society/NGO/SHG procedures
- KU3.** quality systems and other processes practiced in the cooperative society/NGO/SHG
- KU4.** details of the job role and responsibilities
- KU5.** limits of personal responsibility
- KU6.** types of problems related with quality and how to report to concerned person in NGO/SHG/Society, if applicable
- KU7.** the importance of complying with written instructions
- KU8.** documenting procedure, if applicable
- KU9.** who to refer problems to when they are outside the limit of your authority

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- KU10.** the cooperative society/NGO/SHG tools, templates and processes for operations in production
- KU11.** responsibilities under health, safety and environmental legislation
- KU12.** guidelines for storage and disposal of waste materials
- KU13.** potential hazards associated with the machines and the safety precautions that must be taken
- KU14.** protocol to obtain more information on work related tasks
- KU15.** documentation formats
- KU16.** different types of fibers, yarns, count, twist etc.
- KU17.** different types of faults that are likely to be found and how to put them right
- KU18.** different techniques and methods used to detect faults
- KU19.** consequences of using incorrect tools for hand-weaving
- KU20.** types of faults which may occur, how they are identified and methods to deal with it
- KU21.** different types of defects
- KU22.** the importance of marking and segregating rejects
- KU23.** inspect hand-woven fabrics against specifications
- KU24.** identify, mark and place rejects in the designated locations
- KU25.** appropriate inspection methods that can be used
- KU26.** acceptable solutions for particular faults
- KU27.** the consequences of not rectifying problems
- KU28.** the types of adjustments suitable for specific types of faults
- KU29.** own responsibilities at work
- KU30.** basic arithmetic and numerical calculations to count the yarns
- KU31.** complete knowledge about fabric parameters currently running on loom like EPI, PPI, design repeat, width, length of fabric need to be produced per design etc

Generic Skills (GS)

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

- GS1.** write in local language
- GS2.** read and comprehend written instructions
- GS3.** listen effectively and orally communicate information accurately
- GS4.** ask for clarification and advice from others
- GS5.** follow rule-based decision-making processes
- GS6.** make decisions on a suitable course of action or response
- GS7.** plan and organize your work to achieve targets and deadlines
- GS8.** avoid absenteeism
- GS9.** be punctual
- GS10.** work in discipline
- GS11.** act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations

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- GS12.** apply problem-solving approaches in different situations
- GS13.** seek clarification on problems from others
- GS14.** analyze data and activities
- GS15.** pass on relevant information to others
- GS16.** provide opinions on work in a detailed and constructive way
- GS17.** apply balanced judgments to different situations

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Contribute to achieving the quality in Ikkat weaving related operations</i>	18	32	-	-
1. identify and use raw materials as per the specifications provided	2	3	-	-
2. identify faulty materials and component parts and get them rectified	3	7	-	-
3. make adjustments promptly to ensure the hand-woven fabric matches the Ikkat design specification either in warp way , weft way of combined	3	7	-	-
4. carry out work safely and at a rate which maintains required work flow	2	3	-	-
5. carry out quality checks at specified intervals (after each weft insertion) according to design specifications	2	3	-	-
6. apply the allowed tolerances	2	3	-	-
7. identify materials and components which can cause crease, stain and damage	2	3	-	-
8. ensure the correct order of dyed material is used as weft feed material	2	3	-	-
NOS Total	18	32	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N7407
NOS Name	Contribute to achieve quality in Ikkat weaving
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Handloom Designing
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	03/05/2017
Next Review Date	03/05/2019
NSQC Clearance Date	

Qualification Pack

TSC/N9005: Maintain work area and tools in handloom sector

Description

This unit provides performance criteria, knowledge, understanding, skills and abilities required to organise/maintain work areas and activities to ensure tools used for warping are maintained as per norms

Scope

This unit/task covers the following:

- Maintain the work area, tools and machines

Elements and Performance Criteria

Maintain the work area, tools and machines

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

1. Handle materials and tools safely and correctly
2. Use correct lifting and handling procedures
3. Use materials in a manner to minimize waste
4. Maintain a clean and hazard free working area
5. Maintain the tools and equipment used for warping
6. Carry out maintenance and/or cleaning within ones responsibility
7. Identify damaged tools and materials and take action according to the standards followed
8. Ensure that the correct tools and yarn required are in place
9. Work with the correct posture
10. Use cleaning equipment and methods appropriate for the work to be carried out
11. Dispose of waste safely in the designated location
12. Store cleaning equipment safely after use
13. Carry out cleaning according to schedule and limits of responsibility

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Personal hygiene
- KU2.** Safe working practices and Cooperative Society/NGO/SHG/cluster procedures
- KU3.** Limits of your own responsibility
- KU4.** Ways of resolving problems within the work area
- KU5.** The production process and the specific work activities that relate to the whole process
- KU6.** The importance of effective communication with colleagues
- KU7.** The lines of communication, authority and reporting procedures

Qualification Pack

- KU8.** The Cooperative Society/NGO/SHG/cluster rules, codes and guidelines (including time keeping)
- KU9.** The company's quality standards
- KU10.** The importance of complying with written instructions
- KU11.** Work instructions and specifications and interpret them accurately
- KU12.** Method to make use of the information detailed in specifications and instructions
- KU13.** Relation between work role and the overall manufacturing process
- KU14.** The importance of taking action when problems are identified
- KU15.** Different ways of minimising waste
- KU16.** Effects of contamination on products
- KU17.** Common faults and the methods to rectify them
- KU18.** Tools maintenance procedures
- KU19.** Hazards likely to be encountered when conducting routine maintenance
- KU20.** Different types of cleaning substances and their use
- KU21.** Safe working practices for cleaning and the methods of carrying them out

Generic Skills (GS)

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

- GS1.** Write in local language
- GS2.** Read and comprehend written instructions
- GS3.** Listen effectively and orally communicate information accurately
- GS4.** Ask for clarification and advice from others
- GS5.** Follow rule-based decision-making processes
- GS6.** Make decisions on a suitable course of action or response
- GS7.** Plan and organize your work to achieve targets and deadlines
- GS8.** Avoid absenteeism
- GS9.** Be punctual
- GS10.** Work in Discipline
- GS11.** Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- GS12.** Apply problem-solving approaches in different situations
- GS13.** Seek clarification on problems from others
- GS14.** Analyze data and activities
- GS15.** Pass on relevant information to others
- GS16.** Provide opinions on work in a detailed and constructive way
- GS17.** Apply balanced judgment to different situations

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Maintain the work area, tools and machines</i>	19	31	-	-
1. Handle materials and tools safely and correctly	2	3	-	-
2. Use correct lifting and handling procedures	1	2	-	-
3. Use materials in a manner to minimize waste	1	2	-	-
4. Maintain a clean and hazard free working area	1	2	-	-
5. Maintain the tools and equipment used for warping	2	3	-	-
6. Carry out maintenance and/or cleaning within ones responsibility	2	3	-	-
7. Identify damaged tools and materials and take action according to the standards followed	2	3	-	-
8. Ensure that the correct tools and yarn required are in place	1	2	-	-
9. Work with the correct posture	1	2	-	-
10. Use cleaning equipment and methods appropriate for the work to be carried out	1	2	-	-
11. Dispose of waste safely in the designated location	2	2	-	-
12. Store cleaning equipment safely after use	1	2	-	-
13. Carry out cleaning according to schedule and limits of responsibility	2	3	-	-
NOS Total	19	31	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9005
NOS Name	Maintain work area and tools in handloom sector
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Textile Hand loom sector
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	14/09/2015
Next Review Date	13/09/2016
NSQC Clearance Date	19/02/2016

Qualification Pack

TSC/N9006: Working in a team in handloom sector

Description

This unit provides performance criteria, knowledge, understanding, skills and abilities required to working as part of team

Scope

This unit/task covers the following:

- Commitment and trust
- Communication
- Adaptability
- Creative freedom

Elements and Performance Criteria

Commitment and trust

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

1. Be accountable to one's own role in the whole process
2. Perform all roles with full responsibility
3. Be effective and efficient at workplace

Communication

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

4. Properly communicate about workplace policies
5. Talk politely with other team members and colleagues
6. Submit daily report of own performance

Adaptability

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

7. Adjust in different work situations
8. Give due importance to others' point of view
9. Avoid conflicting situations

Creative freedom

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

10. Improve upon the existing techniques to increase process efficiency

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Standard Operating Procedures (SOP) and regulations in the Cooperative Society/NGO/SHG
- KU2.** Procedure followed to get the final output in the Cooperative Society/NGO/SHG
- KU3.** Safe working practices to be adopted in the Cooperative Society/NGO/SHG

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- KU4.** Consulting the supervisor and taking relevant actions against any grievances faced
- KU5.** Importance of commitment and trust
- KU6.** Importance of proper communication
- KU7.** Importance of adaptability
- KU8.** Importance of creative freedom

Generic Skills (GS)

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

- GS1.** Write in local language
- GS2.** Read and comprehend written instructions
- GS3.** Listen effectively and orally communicate information accurately
- GS4.** Ask for clarification and advice from others
- GS5.** Follow rule-based decision-making processes
- GS6.** Make decisions on a suitable course of action or response
- GS7.** Plan and organize your work to achieve targets and deadlines
- GS8.** Avoid absenteeism
- GS9.** Be punctual
- GS10.** Work in Discipline
- GS11.** Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- GS12.** Apply problem-solving approaches in different situations
- GS13.** Seek clarification on problems from others
- GS14.** Analyze data and activities
- GS15.** Pass on relevant information to others
- GS16.** Provide opinions on work in a detailed and constructive way
- GS17.** Apply balanced judgment to different situations

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Commitment and trust</i>	6	9	-	-
1. Be accountable to one's own role in the whole process	2	4	-	-
2. Perform all roles with full responsibility	2	3	-	-
3. Be effective and efficient at workplace	2	2	-	-
<i>Communication</i>	6	10	-	-
4. Properly communicate about workplace policies	2	3	-	-
5. Talk politely with other team members and colleagues	2	3	-	-
6. Submit daily report of own performance	2	4	-	-
<i>Adaptability</i>	6	9	-	-
7. Adjust in different work situations	2	3	-	-
8. Give due importance to others' point of view	2	3	-	-
9. Avoid conflicting situations	2	3	-	-
<i>Creative freedom</i>	2	2	-	-
10. Improve upon the existing techniques to increase process efficiency	2	2	-	-
NOS Total	20	30	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9006
NOS Name	Working in a team in handloom sector
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Textile Hand loom sector
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	14/09/2015
Next Review Date	13/09/2016
NSQF Clearance Date	19/02/2016

Qualification Pack

TSC/N9007: Maintain health, safety and security at work place in handloom sector

Description

This unit provides performance criteria, knowledge and understanding and skills and abilities required to comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self and others

Scope

This unit/task covers the following:

- Comply with health, safety and security requirements at work
- Recognizing and addressing the hazards

Elements and Performance Criteria

Comply with health, safety and security requirements at work

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

1. Comply with health and safety related instructions applicable to the workplace
2. Use and maintain personal protective equipment as per protocol
3. Carry out own activities in line with approved guidelines and procedures
4. Maintain a healthy lifestyle and guard against dependency on in toxicants
5. Follow environment management system related procedures
6. Store materials and tools in line with manufacturers and Cooperative Society/NGO/SHG requirements
7. Safely handle and move waste and debris
8. Minimize health and safety risks to self and others due to own actions
9. Monitor the work place and work processes for potential risks and threats
10. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned
11. Participate in mock drills/ evacuation procedures organized at the workplace
12. Undertake first aid, fire-fighting and emergency response training, if asked to do so
13. Take action based on instructions in the event of fire, emergencies or accidents
14. Follow Cooperative ociety/NGO/SHG procedures for evacuation when required

Recognizing and addressing the hazards

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

15. Identify different kinds of possible hazards (environmental, personal, ergonomic and chemical) of the industry
16. Recognize other possible security issues existing in the workplace
17. Plan the safety techniques
18. Recognize different measures to curb the hazards

Qualification Pack

19. Implement the programs
20. Communicate the safety plans to everyone
21. Attach disciplinary rules with the implementation

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Health and safety related practices applicable at the workplace
- KU2.** Potential hazards, risks and threats based on nature of operations
- KU3.** Cooperative Society/NGO/SHG procedures for safe handling of tools
- KU4.** Potential risks due to own actions and methods to minimize these
- KU5.** Environmental management system related procedures at the workplace
- KU6.** Layout of the plant and details of emergency exits, escape routes, emergency equipment and assembly points
- KU7.** Potential accidents and emergencies and response to these scenarios
- KU8.** Documentation formats
- KU9.** Details of personnel trained in first aid, fire-fighting and emergency response
- KU10.** Occupational health and safety risks and methods
- KU11.** Personal protective equipment and method of use
- KU12.** Identification, handling and storage of hazardous substances
- KU13.** Proper disposal system for waste and by-products
- KU14.** Signage related to health and safety and their meaning
- KU15.** Importance of sound health, hygiene and good habits
- KU16.** Ill- effects of alcohol, tobacco and drugs

Generic Skills (GS)

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

- GS1.** Write in local language
- GS2.** Read and comprehend written instructions
- GS3.** Listen effectively and orally communicate information accurately
- GS4.** Ask for clarification and advice from others
- GS5.** Follow rule-based decision-making processes
- GS6.** Make decisions on a suitable course of action or response
- GS7.** Plan and organize your work to achieve targets and deadlines
- GS8.** Avoid absenteeism
- GS9.** Be punctual
- GS10.** Work in Discipline
- GS11.** Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations

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- GS12.** Apply problem-solving approaches in different situations
- GS13.** Seek clarification on problems from others
- GS14.** Analyze data and activities
- GS15.** Pass on relevant information to others
- GS16.** Provide opinions on work in a detailed and constructive way
- GS17.** Apply balanced judgment to different situations

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Comply with health, safety and security requirements at work</i>	24	46	-	-
1. Comply with health and safety related instructions applicable to the workplace	2	4	-	-
2. Use and maintain personal protective equipment as per protocol	2	4	-	-
3. Carry out own activities in line with approved guidelines and procedures	1	3	-	-
4. Maintain a healthy lifestyle and guard against dependency on in toxicants	1	3	-	-
5. Follow environment management system related procedures	1	3	-	-
6. Store materials and tools in line with manufacturers and Cooperative Society/NGO/SHG requirements	2	2	-	-
7. Safely handle and move waste and debris	2	2	-	-
8. Minimize health and safety risks to self and others due to own actions	2	4	-	-
9. Monitor the work place and work processes for potential risks and threats	2	4	-	-
10. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	2	4	-	-
11. Participate in mock drills/ evacuation procedures organized at the workplace	2	2	-	-
12. Undertake first aid, fire-fighting and emergency response training, if asked to do so	2	4	-	-
13. Take action based on instructions in the event of fire, emergencies or accidents	2	4	-	-
14. Follow Cooperative ociety/NGO/SHG procedures for evacuation when required	1	3	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Recognizing and addressing the hazards</i>	9	21	-	-
15. Identify different kinds of possible hazards (environmental, personal, ergonomic and chemical) of the industry	1	3	-	-
16. Recognize other possible security issues existing in the workplace	1	3	-	-
17. Plan the safety techniques	2	3	-	-
18. Recognize different measures to curb the hazards	1	3	-	-
19. Implement the programs	2	3	-	-
20. Communicate the safety plans to everyone	1	3	-	-
21. Attach disciplinary rules with the implementation	1	3	-	-
NOS Total	33	67	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9007
NOS Name	Maintain health, safety and security at work place in handloom sector
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Textile Hand loom sector
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	14/09/2015
Next Review Date	31/03/2018
NSQC Clearance Date	19/02/2016

Qualification Pack

TSC/N9008: Comply with work place requirements in handloom sector

Description

This unit provides performance criteria, knowledge and understanding and skills and abilities required to comply with the requirements of the workplace

Scope

This unit/task covers the following:

- Self-development
- Team work
- Organizational standards

Elements and Performance Criteria

Self development

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

1. Perform own duties effectively
2. Take responsibility for own actions
3. Be accountable towards the job role and assigned duties
4. Take initiative and innovate the existing methods
5. Focus on self-learning and improvement

Team Work

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

6. Co-ordinate with all team members and colleagues
7. Communicate politely
8. Avoid conflicts and miscommunication

Organizational standards

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

9. Know the organizational standards
10. Implement them in your performance
11. Motivate others to follow them

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Standard Operating Procedures (SOP) and regulations in the Cooperative Society/NGO/SHG
- KU2.** Knowledge of workplace standards
- KU3.** Importance of self-development
- KU4.** Importance of team work

Qualification Pack

KU5. Importance of understanding and complying with organizational standards

Generic Skills (GS)

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

- GS1.** Write in local language
- GS2.** Read and comprehend written instructions
- GS3.** Listen effectively and orally communicate information accurately
- GS4.** Ask for clarification and advice from others
- GS5.** Follow rule-based decision-making processes
- GS6.** Make decisions on a suitable course of action or response
- GS7.** Plan and organize your work to achieve targets and deadlines
- GS8.** Avoid absenteeism
- GS9.** Be punctual
- GS10.** Work in Discipline
- GS11.** Act objectively, rather than impulsively or emotionally when faced with difficult/stressful or emotional situations
- GS12.** Apply problem-solving approaches in different situations
- GS13.** Seek clarification on problems from others
- GS14.** Analyze data and activities
- GS15.** Pass on relevant information to others
- GS16.** Provide opinions on work in a detailed and constructive way
- GS17.** Apply balanced judgment to different situations

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Self development</i>	9	14	-	-
1. Perform own duties effectively	2	3	-	-
2. Take responsibility for own actions	2	3	-	-
3. Be accountable towards the job role and assigned duties	2	3	-	-
4. Take initiative and innovate the existing methods	1	2	-	-
5. Focus on self-learning and improvement	2	3	-	-
<i>Team Work</i>	6	9	-	-
6. Co-ordinate with all team members and colleagues	2	3	-	-
7. Communicate politely	2	3	-	-
8. Avoid conflicts and miscommunication	2	3	-	-
<i>Organizational standards</i>	5	7	-	-
9. Know the organizational standards	2	3	-	-
10. Implement them in your performance	2	3	-	-
11. Motivate others to follow them	1	1	-	-
NOS Total	20	30	-	-

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	TSC/N9008
NOS Name	Comply with work place requirements in handloom sector
Sector	Textile
Sub-Sector	Handloom & Khadi
Occupation	Textile Hand loom sector
NSQF Level	4
Credits	TBD
Version	1.0
Last Reviewed Date	14/09/2015
Next Review Date	13/03/2018
NSQC Clearance Date	19/02/2016

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Element/ 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 Element/ PC.
2. The assessment for the theory part will be based on 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 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. To pass the Qualification Pack assessment, every trainee should score the Recommended Pass % aggregate for the QP.
7. 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

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
TSC/N7404.Design and dye yarn bunch for Ikkat weaving	60	140	-	-	200	22
TSC/N7405.Carry out pre-weaving activities for Ikkat weaving	68	132	-	-	200	21
TSC/N7406.Operate the loom to produce Ikkat fabric	56	144	-	-	200	22

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National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
TSC/N7407. Contribute to achieve quality in Ikkat weaving	18	32	-	-	50	6
TSC/N9005. Maintain work area and tools in handloom sector	19	31	-	-	50	6
TSC/N9006. Working in a team in handloom sector	20	30	-	-	50	6
TSC/N9007. Maintain health, safety and security at work place in handloom sector	33	67	-	-	50	11
TSC/N9008. Comply with work place requirements in handloom sector	20	30	-	-	50	6
Total	294	606	-	-	900	100

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training

Qualification Pack

Glossary

Sector	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.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	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.
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 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.

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Knowledge and Understanding (KU)	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.
Organisational Context	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.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	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.
Electives	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.
Options	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.