



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR APPAREL MADE-UPS & HOME FURNISHING SECTOR

What are Occupational Standards(OS)?

OS describe what individuals need to do, know and understand in order to carry out a particular job role or function

OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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Introduction

Qualifications Pack – Embroidery Machine Operator (Zigzag Machine)

SECTOR: APPAREL, MADE-UP'S AND HOME FURNISHING

SUB-SECTOR: Apparel

OCCUPATION: Machine Embroidery Operation

REFERENCE ID: AMH/Q 0801

ALIGNED TO: NCO-2015 / 8153.0601

Brief Job Description: An Embroidery Machine Operator is responsible for operating the embroidery machine to embroider decorative designs on fabric/garments in the apparel industry. The embroidery machine operator is able to perform different kinds of stitches and decorative work such as running shade work, cording & satin stitch, eyelet work, applique work, shade work and round, cut work and open work, pin stitch & pitch stitch, china embroidery & fancy embroidery.

Personal Attributes: An embroidery machine operator should have good eyesight, eye-hand-leg coordination, motor skills and vision (including near vision, distance vision, colour vision, peripheral vision, depth perception and ability to change focus).





Qualifications Pack Code	AMH/Q 0801		
Job Role	Embroidery Mach	Embroidery Machine Operator (Zigzag Machine)	
Credits (NSQF)	TBD	Version number	1.0
Sector	Apparel, Made-Up's and Home Furnishing	Drafted on	08/08/14
Sub-sector	Apparel	Last reviewed on	02/05/19
Occupation	MachineEmbroideryOperation	Next review date	02/05/2023
NSQC Clearance On*	20/07/15		

Job Role	Embroidery Machine Operator (Zigzag Machine)	
Role Description	To embroider decorative designs on fabric/garments using embroidery machine	
NSQF level Minimum Educational Qualifications Maximum Educational Qualifications Training (Suggested but not mandatory) Minimum Job Entry Age	4 5 th standard, preferably N/A Training in sewing operations 18 years	
Experience	Preferably1-2 years of work experience in stitching& embroidery work	
National Occupational Standards (NOS)	 Compulsory: AMH/N 0801 (Carry out different types of embroidery stitches using an embroidery machine) AMH/N 0802 (Embroider decorative designs using embroidery machine) AMH/N 1003 (Contribute to achieve quality in embroidery work) AMH/N 0102 (Maintain work area, tools & machines) AMH/N 0103 (Maintain health, safety and security at workplace) 	
Performance Criteria	As described in the relevant OS units	



	Keywords /Terms	Description
	Sector	Sector is a conglomeration of different business operations having similar
		businesses and interests. It may also be defined asa 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.
	Vertical	Vertical may exist within a sub-sector representing different domain areas
		or the client industries served by the industry.
	Occupation	Occupation is a set of job roles, which perform similar/related set of
		functions in an industry.
	Function	Function is an activity necessary for achieving the key purpose of the
		sector, occupation, or area of work, which can be carried out by a person
		or a group of persons. Functions are identified through functional analysis
		and form the basis of OS.
	Sub-functions	Sub-functions are sub-activities essential to fulfill the achieving the
		objectives of the function.
	Job role	Job role defines a unique set of functions that together form a unique
		employment opportunity in an organization.
	Occupational	OS specify the standards of performance an individual must achieve when
	Standards (OS)	carrying out a function in the workplace, together with the knowledge and
		understanding they need to meet that standard consistently.
		Occupational Standards are applicable both in the Indian and global
		contexts.
	Performance	Performance Criteria are statements that together specify the standard of
	Criteria	performance required when carrying out a task.
		performance required when currying out a task.
National		NOS are Occupational Standards which apply uniquely in the Indian
	Occupational	context.
	Standards (NOS)	
	Qualifications Pack	Qualifications Pack Code is a unique reference code that identifies a
	Code	qualifications pack.
	Qualifications	Qualifications Pack comprises the set of OS, together with the
	Pack(QP)	educational, training and other criteria required to perform a job role. A
Qualificatio		Qualifications Pack is assigned a unique qualification pack code.
	Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with
		either an ' O ' or an ' N '.
	Unit Title	Unit Title gives a clear overall statement about what the incumbent
		should be able to do.
	Description	Description gives a short summary of the unit content. This would be
		helpful to anyone searching on a database to verify that this is the



	appropriate OS they are looking for.
Scope	Scope is the set of statements specifying the range of variables that an
	individual may have to deal with in carrying out the function which have a
	critical impact on the quality of performance required.
Knowledge and	Knowledge and Understanding are statements which together specify the
Understanding	technical, generic, professional and organizational specific knowledge that
	an individual needs in order to perform to the required standard.
Organizational	Organizational Context includes the way the organization is structured
Context	and how it operates, including the extent of operative knowledge
	managers have of their relevant areas of responsibility.
Technical	Technical Knowledge is the specific knowledge needed to accomplish
Knowledge	specific designated responsibilities.
Core Skills/Generic	Core Skills or Generic Skills are a group of skills that are key to learning
Skills	and working in today's world. These skills are typically needed in any work
	environment. In the context of the OS , these include communication
	related skills that are applicable to most job roles.
Helpdesk	Helpdesk is an entity to which the customers will report their IT problems.
	IT Service Helpdesk Attendant is responsible for managing the helpdesk.
Keywords /Terms	Description
SSC	Sector Skill Council
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
UGC	University Grants Commission
MHRD	Ministry of Human Resource Development
MoLE Ministry of Labor and Employment	
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework







National Occupational Standard



Overview

This unit is about carrying out different types of embroidery stitches using an embroidery machine.







	Unit Code	AMH/N0801		
	Unit Title	Carry out different types of embroidery stitches using an embroidery		
	(Task)	machine		
Description		This unit is about operating the embroidery machine to carry out different types of		
		embroidery stitches on fabric.		
	Scope	This unit/task covers the following:		
		 Prepare for zigzag machine embroidery 		
		 Carryout different types of embroidery stitches & artwork 		
	Performance Criteria (PC) w.r.t. the Scope		
	Element	Performance Criteria		
	Prepare for ZigZag	To be competent, you must be able to:		
	Machine Embroidery	PC1. Analyze& interpret the given design which needs to be embroidered & the		
		type of embroidery that is required to be done		
		PC2. Check the materials required for embroidery with the given specifications		
		PC3. Setup the embroidery machine to the suited setting for carrying out the		
		embroidery to be done		
	Carry out different	PC4. Use the embroidery machine to carry out dotted stitch on given fabric /		
	Types of Embroidery	material		
	Stitches & Artwork	PC5. Operate the embroidery machine to embroider different designs as per given		
		pattern/art work such as variations for und leafs & pointed leafs		
using the embroidery machine.				
		PC9. Carry out mirror work through machine embroidery as per given design PC10. Execute cut work through machine embroidery as per the given design		
		PC10. Execute cut work through machine embroidery as per the given design PC11. Carry out round stitch in machine embroidery		
		PC11. Conform to company quality standards		
		PC12. Company quarty standards PC13. Check with in charge /others when unsure of new product details		
		PC14. Minimise and dispose the waste materials in the approved manner		
		PC15. Carry out Operations at a rate which maintains workflow		
		PC16. Respond appropriately if the embroidery do not meet product specification &		
		take corrective action		
	Knowledge and Unders			
A. Organizational You need to know and understand:				
	Context	KA1. your organization's policies, procedures, guidelines and standards for quality		
	(Knowledge of	KA2. Safe working practices and organisational procedures		
	the company/	KA3. Quality systems and other processes practiced in the organization		
	organization and	KA4. Types of problems with quality and how to report them to appropriate people		
		KA7. who to refer problems to when they are outside the limit of your authority		
		KA8. your organization's tools, templates and processes for embroidery related		
		operations in production		







B. Technical	You need to know and understand:		
Knowledge	KB1. Different types of embroidery techniques & associated stitch type		
	KB2. Zig-zag machine embroidery		
	 Types of thread used in Machine Embroidery 		
	 Machine faults & their remedies 		
	 Relation Between Thread, Machine needle and Cloth 		
	Care & Maintenance of Embroidery Machine		
	Quality Control		
	KB3. Required machine setting for different types of embroidery		
	KB4. Colour combination/usage of thread as per the given design		
	KB5. Knowledge of different types of fabrics & other materials and accessories		
	used in embroidery		
	KB6. Technical terms associated with different kinds of embroidery work		
	KB7. The characteristics of the embroidery materials and how they differ		
	KB8. Thread thickness, shade and sizes		
	KB9. Types of needles & their suitability		
	KB10. Different types of trims		
	KB11. Tools & Material requirements for embroidery as per given specifications		
	KB12. Different Types of Embroidery Stitches & Artwork		
	Round Leafs in Different Design		
	Dotted Stitch		
	Pointed Leafs in DifferentDesign		
	Applique work in Machine Embroidery & Its variation		
	Dori Work in MachineEmbroidery		
	Mirror Work Through MachineEmbroidery		
	Cut Work Through MachineEmbroidery		
	Round Stitch in Machine Embroidery		
Skills (S)			
A. Core Skills/	Writing Skills		
Generic Skills	You need to know and understand how to:		
	SA1. Write in local language		
	Reading Skills		
	You need to know and understand how to:		
	SA2. Read a design specificifications sheet		
	SA3. Read art work details for the type of embroidery		
	Oral Communication (Listening and Speaking skills)		
	You need to know and understand how to:		
	SA4. Listen effectively and orally communicate information accurately		
	SA5. Ask for clarification and advice from others		
B. Professional Skills	Decision Making		
	You need to know and understand how to:		
	SB1. Follow rule-based decision-making processes		
	SB2. Make decisions on a suitable course of action or response		
	Plan and Organize		







	You need to know and understand how to:	
	SB3. Plan and organize your work to achieve targets and deadlines	
	Problem Solving	
	You need to know and understand how to:	
	SB4. Apply problem-solving approaches in different situations	
	SB5. Refer anomalies to the supervisor	
	SB6. Seek clarification on problems from others	
	Analytical Thinking	
	You need to know and understand how to:	
	SB7. Analyze data and activities	
	SB8. Pass on relevant information to others	
Critical Thinking		
	You need to know and understand how to:	
	SB9. Provide opinions on work in a detailed and constructive way	
	SB10. Apply balance judgments to different situations	
	SB10. Apply balance judgments to different situations	









NOS Version Control

NOS Code	AMH/N 0801		
Credits(NSQF)	TBD	Version number	1.0
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Industry Sub-sector	Apparel	Last reviewed on	02/05/19
Occupation	Machine Embroidery Operation	Next review dat	02/05/2023









National Occupational Standard



Overview

This unit is about operating the embroidery machine to embroider decorative design on fabric or a given material as per the design specifications







Unit Code	AMH/N 0802
Unit Title	Embroider decorative designs using embroidery machine
(Task)	
Description	ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&
	Abilitiesrequiredtoembroider decorative designsusingembroiderymachine.
Scope	Thisunit/taskcoversthefollowing:
	1. Prepareforembroidery related operations
	2. Operate the embroidery machine skillfully to achieve the requisite quality of
	embroidery work
Performance Criteria (PC) w.r.t. the Scope
Element	Performance Criteria
Prepareforembroidery	To be competent on the job, you must be able to:
related operations	PC1. Make sure the work area is free from hazards
	PC2. Follow the instructions&design specifications given for the embroidery to be done
	PC3. Ask questions to obtain more information on tasks when the instructions you have
4	are unclear
	PC4. Agree and review your agreed upon work targets with your supervisor and
	Check for special instructions, if any
	PC5. Use the correct tools and equipments
	PC6. Check that equipment is safe and set up in readiness for use
	PC7. Select the correct component parts/fabric/material for embroidery
	PC8. Check that the materials to be used are free from faults
	PC9. Ensure the materials used meet the specification matching
	a. Embroidery Artwork
Operate the	b. Design sample of the embroidered product. PC10. Carryouttestsews
Operate the	PC10. Carryouttestsews PC11. Checkneedlesandthreads regularly
embroidery machine	PC12. Checkiffabric /Componentiscorrectlymarkedandpiecescutasrequired
skillfully to achieve	PC13. Reportfaultsinthematerials
the requisite quality	PC14. Conformtocompanyqualitystandards
of embroidery work	PC15. Reportanydamagedworkto the responsible person
	PC16. Follow company reporting procedures about defective tools and machines which
	affect work and report risks/problems likely to affect services to the relevant
	person promptly and accurately
	PC17. Leave work area safe and secure when work is complete
	PC18. Operate embroidery machines safely and in accordance with guidelines
	PC19. Optimizethepositioningandlayoutofmaterialstoensureasmoothandrapidthroughput
	PC20. Checktheequipmentpriortomakingthestitching, including correct controls, correct
	attachments, correct needle & thread
	PC21. Ensure the embroidered design conforms to the artwork specifications PC22. Inspectembroidedproductsagainstspecifications
	PC22. Inspectembroidedproductsagainstspecifications PC23. Perform all embroidery operations with precision & accuracy
	rezo. renomi al emploidery operations with precision & acturacy









Knowledge and Understa	anding (K)		
A. Organizational	You need to know and understand:		
Context (Knowledge	KA1. Theorganisation'spoliciesandprocedures		
of the company/	KA2. Responsibilities under health, safety and environmental legislation		
organization and its	KA3. Guidelinesforstorageanddisposalofwastematerials		
processes)	KA4. Potential hazards associated with the machines and thesa fety precautions		
processes	thatmustbetaken		
	KA5. Protocoltoobtainmoreinformationonworkrelatedtasks		
	KA6. Contact person in case of queries on procedure or products and for		
	resolvingissuesrelatedtodefectivemachines, tools and/orequipment		
	KA7. Detailsofthejobroleandresponsibilities		
	KA8. Documentationandreportingformats		
	KA9. Worktargetandreviewmechanismwithyour supervisor		
	KA10. Protocolandformatforreportingworkrelated risks/ problems		
	KA11. Methodofobtaining/givingfeedbackrelatedtoperformance		
	KA12. Importanceofteamworkandharmoniousworkingrelationships		
	KA13. Processforoffering/obtainingworkrelated assistance		
B. Technical	You need to know and understand:		
Knowledge	KB1. Knowledgeofdifferent types of entropidery		
	KB2. Useofdesignspecification sheet & understanding the artwork		
	KB3. Rangeoftechniquesmostsuitedtothedifferenttypesoffabrics/materials		
	KB4. Combination of basic stitches &workstyles		
	KB5. Handling & Preparation of Machine Embroidery		
	KB6. Commonfactorsaffectingstitching& embroidery		
	KB7. Differenttypesof needles		
	KB8. Broken needleprocedure		
KB9. Threadthickness,shadeandsizesandpartsofneedles			
	KB10. Knowledgeaboutadjustingthetoptension		
KB11. KnowledgeofattachmentsusedontheM/C KB12. Theactionstotakeintheeventofamachineceasingtofunctioncorrectly			
			KB13. Commonhazardsintheworkareaandworkplaceproceduresfordealing with them
KB14. Thecharacteristicsofthematerialsto be embroidered andhowtheyo KB15. Theproblemsencountered when working ondifferenttypes of mate			
	KB15. The problem sencountered when working on the entrypes of materials KB16. Differenttypes of defects		
KB17. Knowledgeoftheembroiderymachinepartsanditsapplication KB18. Maintenance,adjustmentandreplacementofwornpartsonthemachi			
			fordifferenttypesofattachment
Skills (S)			
A. Core Skills/ Generic	Writing Skills		
Skills	You need to know and understand how to:		
	SA1. Write the required measurements where applicable		









	Reading Skills	
	You need to know and understand how to:	
	SA2. read instructions, guidelines, procedures and rules	
	SA3. Read and understand techpacks, buyer specifications	
	Oral Communication (Listening and Speaking skills)	
	You need to know and understand how to:	
	SA4. ask for clarification and advice from line managers	
	SA5. communicate orally with colleagues	
B. Professional Skills	Decision Making	
	NA	
	and the second sec	
	Plan nd Organize	
	NA CONTRACTOR	
	Customer Centricity	
	NA	
	Problem Solving	
	You need to know and understand how to:	
	SB1. refer anomalies to the line manager	
	SB2. seek clarification on problems from others	
	Analytical Thinking	
	You need to know and understand how to:	
	SB3. provide relevant information to others	
	SB4. analyze needs, requirements and dependencies in order to meet your work	
	requirements	
	Critical Thinking	
	NA	









NOS Version Control

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Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	08/08/14
Industry Sub-sector	Apparel	Last reviewed on	02/05/19
Occupation	Machine Embroidery Operation	Next review date	02/05/2023











AMH/N1003 Contribute to achieve quality in embroidery work

National Occupational Standard



Overview

ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&abilities required to ensure the embroidery work meets the quality standards









AMH/N1003 Contribute to achieve quality in embroidery work

Unit Code	AMH/N1003	
UnitTitle(Task)	Contribute toachievequality in embroidery work	
Description	ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&Abilitiesrequiredtomonitorthequalitywhileundertakingembroideryrelatedactivitiestoensurethattheembroideredworkmeetspecifications	
Scope	Thisunit/taskcoversthefollowing:	
	1 Contributetoachievingthequalityinmachineembroidery related	
	a(PC)w.r.tthe Scope	
Elements	PerformanceCriteria	
Contribute to	Tobe competent, theuser/individual onthejobmustbeableto:	
achieving the		
productqualityin embroidery work	 PC1. Identifyandusematerialsrequiredbasedonthe specifications PC2. Takethenecessaryactionwhenmaterialsdonotconformtoqualitystandards PC3. Report and replace identified faulty materials and component parts which do notmeetspecification PC4. Identifymodifiabledefectsandreworkonthem PC5. Carryoutworksafelyandataratewhichmaintainswork flow PC6. Reporttotheresponsiblepersonwhentheworkflowofotherproduction areas disruptswork PC7. Test,sort,trackfeedandexaminework in progress PC8. Carryoutqualitychecksatspecifiedintervalsaccordingtoinstructions PC9. Applythe allowed tolerances PC10. Identifyfaultsandtakeappropriateactionfor rectification PC11. Makeadjustmentspromptlyto ensure the embroidery work matches thespecification PC12. Fault-findmaterials and componentsfor creased, stained, damage and incorrectlymade-upcomponent parts PC13. Reportfaultsinotherprocessestotheappropriateperson 	
	PC14. Maintaintherequiredproductivityandqualitylevels PC15. Completeand maintain documentation	
KnowledgeandUnd	erstanding (K)w.r.t.theScope	
Elements	KnowledgeandUnderstanding	
A. Organisational	Theuser/individualonthe job needs toknowandunderstand:	
Context	KA1. Safeworkingpracticesandorganizationalprocedures	
(Knowledgeofthe	KA2. Theorganisation'sproceduresandguidelines	
company/	KA3. Qualitysystemsandmachineembroideryprocessespracticedin the organization	
organizationand its		
processes)	KA5. Typesofproblemswithqualityandhowtoreportthemtoappropriatepeople	
	KA6. Methods topresentanyideasforimprovementtolinemanagerKA7. Theimportanceofcomplyingwithwritten instructions	
	KA8. Limitsof personal responsibility	
	KA9. Reportingprocedureincaseoffaultsinown/otherprocesses	









AMH/N1003 Contribute to achieve quality in embroidery work

B. Technical/	Theuser/individualonthe job needs toknowandunderstand:		
Domain	KB1. Differenttypesoffaultsthatarelikelytobefoundandhowtoputthem right		
Knowledge	KB2. Differenttechniquesandmethods used todetectfaults		
	KB3. Consequences of incorrect settings in the embroidery machine		
	KB4. Typesofdecorative stitches, embroidery styles & techniques		
	KB5. Typesoffaultswhichmayoccur,howtheyareidentifiedandmethodstodealwith		
	it		
	KB6. Differenttypesof defects		
	KB7. Reasons forkeepingstitched/embroidereditemsoutofcontamination		
	KB8. Theimportanceofmarkingandsegregatingrejects		
	KB9. Inspectembroideredproductsagainstspecifications		
	KB10. Identifymarkandplacerejectsinthedesignatedlocations		
	KB11. Appropriate inspection methods that can be used		
	KB12. Acceptablesolutionsforparticularfaults		
	KB13. Theconsequencesofnotrectifyingproblems		
	KB14. Thetypesofadjustmentssuitableforspecifictypesoffaults		
	KB15. Ownresponsibilitiesatworkduringproduction		
	The second se		
Skills (S)w.r.ttheSco	pe		
Elements	Skills		
A. Core Skills/	Writing Skills		
GenericSkills			
	The user/ individual on the job needs to know and understand how to:		
	SA1. Write in English/ local language as applicable		
	SA2. Fill up appropriate technical forms, process charts, activity logs in the		
	prescribed format of the company		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA3. Read English/ local language as applicable		
	SA4. Read and understand manuals, health and safety instructions, memos,		
	reports, job cards etc.		
	Oral Communication (Listening and Speaking Skills)		
	The user/individual on the job needs to know and understand how to:		
	SA5. Listen actively		
	Communicate effectively with supervisors, managers, etc.		
B. Professional	Decision Making		
Skills NA			
	Plan and Organize		







AMH/N1003 Contribute to achieve quality in embroidery work

Theuser/individualonthejobneedstoknowandunderstandhowto:
SB1. Setup equipment andtestit
SB2. Setupanefficientworkstation
Customer Centricity
NA
Problem Solving
Theuser/individualonthejobneedstoknowandunderstandhowto:
SB3. Useinspectionmethodsappropriatetothework
Analytical Thinking
 Theuser/individualonthejobneedstoknowandunderstandhowto: SB4. Identifyfaults,thecausesandrectification SB5. Applythe allowed tolerances SB6. Differentiatebetweencorrectableandnon-correctablefaults SB7. Identify equipment maintenance requirements and maintenance procedure SB8. Handlingtechniquesfordifferentmaters
Critical Thinking
NA









AMH/N1003 Contribute to achieve quality in embroidery work

NOS Version Control

NOS Code	AMH/N 1003		
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Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	08/08/14
Industry Sub-sector	Apparel	Last reviewed on	02/05/19
Occupation	Machine Embroidery Operation	Next review date	02/05/2023











AMH/N 0102 Maintainworkarea, toolsandmachine

National Occupational Standard



Overview

This unit provides Performance Criteria, Knowledge & Understanding and Skills & Abilities required to organise/maintain work are as and activities to ensure tools and machines are maintained as pernorms









AMH/N 0102 Maintainworkarea, toolsandmachines

	Unit Code	AMH/N0102	
/	UnitTitle (Task)	Maintainworkarea, tools and machines	
	Description	ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&Abi litiesrequiredtoorganise/maintainworkareasandactivitiestoensuretoolsandmac hinesare maintainedaspernorms	
	Scope	Thisunit/taskcoversthefollowing: 1. Maintaintheworkarea,toolsandmachines	
	PerformanceCriteria	a(PC)w.r.tthe Scope	
	Elements	PerformanceCriteria	
	Maintainthe work area,toolsandm achines	PerformanceCriteriaTobecompetent,theuser/individual onthejobmustbeableto:PC1.Handle materials,machinery,equipmentandtoolssafelyandcorrectlyPC2.UsecorrectliftingandhandlingproceduresPC3.UsematerialstominimizewastePC4.MaintainacleanandhazardfreeworkingareaPC5.MaintaintoolsandequipmentPC6.CarryoutrunningmaintenancewithinagreedschedulesPC7.Carryoutmaintenanceand/orcleaningwithinone'sresponsibilityPC8.ReportunsafeequipmentandotherdangerousoccurrencesPC9.EnsurethatthecorrectmachineguardsareinplacePC10.Workin a comfortable positionwiththecorrectposturePC11.Use cleaning equipment and methods appropriate for the work to be carriedoutPC12.DisposeofwastesafelyinthedesignatedlocationPC13.Storecleaningequipmentsafelyafter usePC14.Carryoutcleaningaccordingtoschedulesandlimitsofresponsibility	
	Knowlodgoondlind		
	Elements	erstanding (K)w.r.t.theScope KnowledgeandUnderstanding	
	A. Organisational	Theuser/individualonthe job needs toknowandunderstand:	
	Context	KA1. Personal hygieneanddutyof care	
	(Knowledgeofthe	KA2. Safeworkingpracticesandorganisationalprocedures	
	company/	KA3. Limitsofyourownresponsibility	
	organisationand	KA4. Waysofresolvingwithproblemswithintheworkarea	
	its processes)	КА5.	
		The production process and the specific work activities that relate to the whole pr ocess	
		KA6. Theimportanceofeffectivecommunicationwithcolleagues	
		KA7. Thelinesofcommunication, authorityandreportingprocedures	
		KA8. Theorganisation'srules, codes and guidelines (including time keeping)	
		KA9. The company's quality standards	
		KA10. Theimportanceofcomplyingwithwritten instructions	
		KA11. Equipmentoperatingprocedures/manufacturer's instructions	









AMH/N 0102 Maintainworkarea, toolsandmachines

B. Technical/	Theuser/individualonthe job needs toknowandunderstand:
Domain	KB1. Workinstructionsandspecificationsandinterpretthemaccurately
Knowledge	KB2. Methodtomakeuseoftheinformationdetailedinspecificationsand
	instructions
	KB3. Relationbetween work roleandtheoverallmanufacturingprocess
	KB4. The importance of taking action when problems are identified
	KB5. Different ways of minimising waste
	KB6. The importance of running maintenance and regular cleaning
	KB7. Effects of contamination on products i.e. Machine oil, dirt
	KB8. Common faults with equipment and the method to rectify
	KB9. Maintenance procedures
	KB10. Hazards likely to be encountered when conducting routine maintenance
	KB11. Different types of cleaning equipment and substances and their use
	KB12. Safe working practices for cleaning and the method of carrying them out
	KB12. Sale working practices for cleaning and the method of carrying them out
Skills (S)w.r.ttheSco	
Elements	Skills
A. Core Skills/	Writing Skills
GenericSkills	
	The user/individual on the job needs to know and understand how to:
	SA1. Write and document appropriate technical forms, job cards, inspection
	sheets as required format of the company
	Reading Skills
	The user/individual on the job needs to know and understand how to:
	SA2. Read and comprehend the organizational documents pertaining to rules and procedures
	machine and operating manuals, job cards, visual cards, etc.
	SA4. Read in the local language as applicable
	SA5. Read and understand manuals, health and safety instructions, memos,
	reports, job cards etc.
	Oral Communication (Listening and Speaking Skills)
	The user/ individual on the job needs to know and understand how to:
	SA6. Positively influence the team members into following procedures
B. Professional	Decision Making
D. Trofessional	
	On the job the individual needs to be able to:
	SB1. Take appropriate decisions regarding to responsibilities
	Plan and Organize
	NA
	Customer Centricity









AMH/N 0102 Maintainworkarea, toolsandmachines

NA
Problem Solving
On the job the individual needs to be able to:
SB2. Solve operational role related issues
Analytical Thinking
NA
Critical Thinking
NA

1

NOS Version Control

NOS Code		AMH/N 0102	S. P.
Credits (NSQF)	TBD	Version number	1.0
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	08/08/14
Industry Sub-sector	Apparel	Last reviewed on	02/05/19
Occupation	Machine Embroidery Operation	Next review date	02/05/2023









National Occupational Standard

Overview

ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&Abilities required to comply with health, safety and security requirements at the workplace and coversprocedurestoprevent,controlandminimiseriskto self and others.





Unit Code		
UnitTitle (Task)	AMH/N0103 Maintainhealth, safety and security at work place	
Description	Thisunitprovidesperformancecriteria, knowledge&understandingandskills&abilities required to comply with health, safety and security requirements at the workplace and coversprocedurestoprevent, controlandminimiserisk to self and others.	
Scope	Thisunit/taskcoversthefollowing: 1. Complywith health, safetyandsecurityrequirementsatwork	
PerformanceCriteria	n(PC)w.r.tthe Scope	
Elements	PerformanceCriteria	
Comply with health,safetyand security requirementsatwo rk	 Tobe competent, theuser/individual onthejobmustbeableto: PC1. Comply with health and safety related instructions applicable to the workplace PC2. Use and maintain personal protective equipment as per protocol PC3. Carryout own activities in line with approved guide lines and procedures PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants PC5. Follow environment management system related procedures PC6. Identify and correct(if possible) malfunctions in machinery and equipment PC7. Report any service malfunctions that cannot be rectified PC8. Store materials and equipment in line with manufacturer's and organisational requirements PC9. Safelyhandleandmovewasteanddebris PC10. Minimizehealthandsafetyriskstoselfandothersdueto own actions PC11. Seekclarifications,fromsupervisorsorotherauthorizedpersonnelincase of perceived risks PC12. Monitortheworkplaceandworkprocessesforpotentialrisksandthreats PC13. Carryoutperiodicwalk-throughtokeepworkareafreefromhazardsandobstructions, ifassigned PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel PC15. Participate in mock drills/ evacuation procedures organized at the workplace PC16. Undertakefirstaid,fire-fightingandemergencyresponsetraining,ifasked todoso PC17. Take action based on instructions in the event of fire, emergencies or accidents PC18. Follow organisationproceduresfor shutdown and evacuation when required 	
KnowledgeandUnde	erstanding (K)w.r.t.theScope	
Elements	KnowledgeandUnderstanding	





A Organizational	The second individual on the side in a second technological up devete a de	
A. Organisational	Theuser/individualonthe job needs toknowandunderstand:	
Context	KA1. Health and safety related practices applicable at the workplace	
Knowledge of the	KA2. Potential hazards, risks and threats based on nature of operations	
company /	KA3. Organizational procedures for safe handling of equipment and machine	
organisation	operations	
and its	KA4. Potential risks due to own actions and methods to minimize these	
processes)	KA5. Environmental management system related procedures at the workplace	
	KA6. Layout of the plant and details of emergency exits, escape routes, emergency	
	equipment and assembly points	
	KA7. Potential accidents and emergencies and response to these scenarios	
	KA8. Reporting protocol and documentation required	
	KA9. Details of personnel trained in first aid, fire-fighting and emergency response	
	KA10. Actions to take in the event of a mock drills/ evacuation procedures or actual	
	accident, emergency or fire	
B. Technical /	The user/individual on the job needs to know and understand:	
Domain	KB1. Occupational health and safety risks and methods	
Knowledge	KB2. Personal protective equipment and method of use	
	KB3. Identification, handling and storage of hazardous substances	
	KB4. Proper disposal system for waste and by-products	
	KB5. Signage related to health and safety and their meaning	
	KB6. Importance of sound health, hygiene and good habits	
	KB7. Ill-effects of alcohol. tobacco and drugs	
Skills (S)w.r.ttheSco		
Elements	Skills	
A. Core Skills/	Writing Skills	
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Customer Centricity
NA
Problem Solving
Theuser/individualonthejobneedstoknowandunderstandhowto:
SB3. Safeandcorrectprocedureofhandlingequipmentandmachinery
SB4. Reporttosupervisorsandotherauthorizedpersonnelforassistance
Analytical Thinking
Theuser/individualonthejobneedstoknowandunderstandhowto: SB5. Identifyandreportservicemalfunctionsandchemicalleaks
Critical Thinking
NA

NOS Version Control

NOS Code	AMH/N 0103				
Credits (NSQF)	TBD	Version number	1.0		
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	08/08/14		
Industry Sub-sector	Apparel	Last reviewed on	02/05/19		
Occupation	Machine Embroidery Operation	Next review date 02/0	05/2023		





Annexure

Nomenclature for QP and NOS



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The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Apparel	0-40
Made-ups	41-55
Home Furnishing	56-70
Fututure Jobroles	71-89
Generic Job roles	90-99

Sequence	Description	Example		
Three letters	Industry name	AMH		
Slash	/	/		
Next letter	Whether Q P or N OS	Q or N		
Next two numbers	Occupation code	01		
Next two numbers	OS number	01		





Criteria For Assessment Of Trainees

Job Role Embroidary Machine Operator(ZigZag Machine) Qualification Pack AMH/Q0801

Sector Skill Council AMHSSC

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC

2. The assessment for the theory 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 this criteria
- 6. To pass the Qualification Pack, every trainee should score a minimum of 70% aggregate in QP
- 7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

		Total Marks			Ν	Marks Allocation	
			Out Of	Theory	Skills Practical	Viva	
1. AMH/N 0801 (Carry out different types of embroidery stitches using an embroidery machine)	PC1. Analyse & interpret the given design which needs to be embroidered & the type of embroidery that is required to be done		7	2	3	2	
	PC2. Check the materials required for embroidery with the given specifications		5	1	3	1	
	PC3. Setup the embroidery machine to the suited setting for carrying out the embroidery to be done	90	5	1	3	1	
	PC4. Use the embroidery machine to carry out dotted stitch on given fabric / material		5	1	3	1	
	PC5. Operate the embroidery machine to embroider different designs as per given pattern/art work such as variations of round leafs & pointed leafs]	7	2	3	2	
	PC6. Embroider any given pattern on fabric using the correct thread & materials, using the embroidery machine.		6	1	3	2	
	PC7. Carry out appliqué work in machine		5	1	3	1	







	embroidery & its variation					
	PC8. Carry out Dori work in machine embroidery as				_	
	per given design/art work		5	1	3	1
	PC9. Carry out mirror work through machine		5	1	3	1
	embroidery as per given design		5	1	5	1
	PC10. Execute cut work through machine		5	1	3	1
	embroidery as per the given design					
	PC11. Carry out round stitch in machine embroidery		5	1	3	1
	PC12. Conform to company quality standards		7	3	3	1
	PC13. Check with in charge /others when unsure of new product details		6	1	3	2
	PC14. Minimise and dispose the waste materials in					
	the approved manner		5	1	3	1
	PC15. Carry out Operations at a rate which					
	maintains workflow		5	1	3	1
	PC16. Respond appropriately if the embroidery do					
	not meet product specification & take corrective		7	2	3	2
	action					
	Total		90	21	48	21
2. AMH/N0802						
(Embroider						
decorative designs	PC1. Make sure the work area is free from hazards		5	1	3	1
using embroidery						
machine)						
	PC2. Follow the instructions & design specifications		5	3	1	1
	given for the embroidery to be done					
	PC3. Ask questions to obtain more information on tasks when the instructions you have are unclear		3	1	1	1
	PC4. Agree and review your agreed upon work targets with your supervisor and check for special		4	1	2	1
	instructions, if any		4	1	2	1
	PC5. Use the correct tools and equipment's		5	1	3	1
	PC6. Check that equipment is safe and set up in					
	readiness for use	100	4	1	2	1
	PC7. Select the correct component	100		4	2	
	parts/fabric/material for embroidery		6	1	3	2
	PC8. Check that the materials to be used are free		4	1	2	1
	from faults		4	1	2	1
	PC9. Ensure the materials used meet the					
	specification matching a. Embroidery Artwork b.		4	2	1	1
	Design sample of the embroidered product					
	PC10. Carry out test sews		4	1	2	1
	PC11. Check needles and threads regularly		4	1	2	1
			I	1	1	
	PC12. Check if fabric / Component is correctly		-	4	2	4
			5	1	3	1
	PC12. Check if fabric / Component is correctly		5	1	3 2	1
	PC12. Check if fabric / Component is correctly marked and pieces cut as required					







	person					
	PC16. Follow company reporting procedures about defective tools and machines which affect work and report risks/ problems likely to affect services to the relevant person promptly and accurately		3	1	1	1
	PC17. Leave work area safe and secure when work is complete		4	1	2	1
	PC18. Operate embroidery machines safely and in accordance with guidelines		6	1	3	2
	PC19. Optimize the positioning and layout of materials to ensure a smooth and rapid throughput		5	3	1	1
	PC20. Check the equipment prior to making the stitching, including correct controls, correct attachments, correct needle & thread		4	1	2	1
	PC21. Ensure the embroidered design conforms to the artwork specifications		4	1	2	1
	PC22. Inspect embroider products against specifications		4	1	2	1
	PC23. Perform all embroidery operations with precision & accuracy		5	1	3	1
	Total		100	28	47	25
3. AMH/N1003 (Contribute to achieve quality in embroidery work)	PC1. Identify and use materials required based on the specifications		10	5	2	3
	PC2. Take the necessary action when materials do not conform to quality standards		5	3	1	1
	PC3. Report and replace identified faulty materials and component parts which do not meet specification		6	1	2	3
	PC4. Identify modifiable defects and rework on them		5	1	3	1
	PC5. Carry out work safely and at a rate which maintains work flow	400	10	2	5	3
	PC6. Report to the responsible person when the work flow of other production areas disrupts work	100	5	2	2	1
	PC7. Test, sort, track feed and examine work in progress		6	1	4	1
	PC8. Carry out quality checks at specified intervals according to instructions		6	1	4	1
	PC9. Apply the allowed tolerances		6	1	4	1
	PC10. Identify faults and take appropriate action for rectification		6	1	4	1
	PC11. Make adjustments promptly to ensure the embroidery work matches the specification		5	1	3	1
	PC12. Fault-find materials and components for creased, stained, damage and incorrectly made-up component parts		10	7	2	1







	PC13. Report faults in other processes to the					
	appropriate person		5	1	3	1
	PC14. Maintain the required productivity and					_
	quality levels		5	1	3	1
	PC15. Complete and maintain documentation		10	5	2	3
	Total		100	33	44	23
4.AMH/N0102(Mai						
ntain work area,	PC1. Handle materials, machinery, equipment and		4	1	2	1
tools and	tools safely and correctly		4	1	2	1
machines)						
	PC2. Use correct lifting and handling procedures		3	1	1	1
	PC3. Use materials to minimize waste		4	1	2	1
	PC4. Maintain a clean and hazard free working area		4	1	2	1
	PC5. Maintain tools and equipment		4	1	2	1
	PC6. Carry out running maintenance within agreed				2	4
	schedules		4	1	2	1
	PC7. Carry out maintenance and/or cleaning within		Δ	2	1	1
	one's responsibility		4	2	1	1
	PC8. Report unsafe equipment and other dangerous	50	4	2	1	1
	occurrences			2	1	1
	PC9. Ensure that the correct machine guards are in		3	1	1	1
	place			-	-	-
	PC10. Work in a comfortable position with the		4	2	1	1
	correct posture					
	PC11. Use cleaning equipment and methods		3	1	1	1
	appropriate for the work to be carried out PC12. Dispose of waste safely in the designated					
	location		3	1	1	1
	PC13. Store cleaning equipment safely after use		3	1	1	1
	PC14. Carry out cleaning according to schedules and			-	-	-
	limits of responsibility		3	1	1	1
	Total		50	17	19	14
5. AMH/N0103						
	PC1. Comply with health and safety related		2			
fetyandsecurityat	instructions applicable to the workplace		3	1	1	1
workplace)						
	PC2. Use and maintain personal protective		3	1	1	1
	equipment as per protocol		5	1	1	1
	PC3. Carry out own activities in line with approved		4	1.5	2	0.5
	guidelines and procedures	60	-	1.5	2	0.5
	PC4. Maintain a healthy lifestyle and guard against	00	4	2	1	1
	dependency on intoxicants				_	_
	PC5. Follow environment management system		3	1.5	1	0.5
	related procedures					
	PC6. Identify and correct (if possible) malfunctions		4	2	1	1
	in machinery and equipment					1
	in machinery and equipment PC7. Report any service malfunctions that cannot					







PC8. Store materials and equipment in line with manufacturer's and organisational requirements	3	1	1	1
PC9. Safely handle and move waste and debris	4	1	2	1
PC10. Minimize health and safety risks to self and others due to own actions	3	1	1	1
PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks	4	1	2	1
PC12. Monitor the workplace and work processes for potential risks and threats	3	1	1	1
PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned	3	1	1	1
PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel	3	1	1	1
PC15. Participate in mock drills/ evacuation procedures organized at the workplace	3	1	1	1
PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so	4	1	2	1
PC17. Take action based on instructions in the event of fire, emergencies or accidents	3	1	1	1
PC18. Follow organisation procedures for shutdown and evacuation when required	3	1	1	1
Total	60	21	22	17
Grand Total	400	120	180	100