



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

Contact Us:

AMH-SSC E-mail: ceo@sscamh.com



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Introduction Qualifications Pack – Machine Maintenance Mechanic: Sewing Machine

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

SUB-SECTOR: APPAREL

OCCUPATION: MACHINE MAINTENANCE

REFERENCE ID: AMH/Q 1901

ALIGNED TO: NCO-2004 /7233.52

Brief Job Description: A sewing machine maintenance mechanic is responsible for conducting regular preventive maintenance procedures to ensure the machines are in good condition & function smoothly, as well as trouble shoot machine associated problems and change machine parts as and when required.

Personal Attributes: A machine maintenance mechanic should be organized and have good analytical skills. He/she also needs to have good hand-eye coordination and dexterity.





Qualifications Pack Code	AMH/Q 1901		
Job Role	Machine Maintenance Mechanic: Sewing Machine		
Credits (NSQF)	TBD Version number 1.0		
Sector	Apparel, Made-Up's and Home Furnishing	Drafted on	05/11/14
Sub-sector	Apparel	Last reviewed on	15/11/14
Occupation	Machine Maintenance	Next review date	30/12/15
NSQC Clearance On*	20/07/15		

Job Role	Machine Maintenance Mechanic	
Role Description	To maintain the sewing machines in the production line and ensure they function smoothly.	
NSQF level	5	
Minimum Educational Qualifications	8 th standard, preferably	
Maximum Educational Qualifications	N/A	
Training	Training in apparel production/apparel manufacturing	
(Suggested but not mandatory)	technology/machine maintenance procedures	
Minimum Job Entry Age	18 years	
Experience	Preferably1-2 years of work experience in stitching or maintenance division of any apparel manufacturing comany	
National Occupational Standards (NOS)	 Compulsory: 1. <u>AMH/N 1901 (Carry out preventive machine maintenance procedures)</u> 2. <u>AMH/N 1902 (Troubleshoot machine related problems)</u> 3. <u>AMH/N 0102 (Maintain work area, tools & machines)</u> 4. <u>AMH/N 0103 (Maintain health, safety and security at workplace)</u> Optional: Not Applicable 	
Performance Criteria	As described in the relevant OS units	



Glossary of Key Terms Table 1: Glossary of Key Terms

	Keywords /Terms	Description
Definitions	Sector	Sector is a conglomeration of different business operations having similar businesses and interests. It may also be defined as distinct subset of the economy whose components share similar characteristics and interests.
efir	Sub-sector	Sub-sector is derived from a further breakdown based on the
Õ		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 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 they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
	National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
	Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a 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 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.





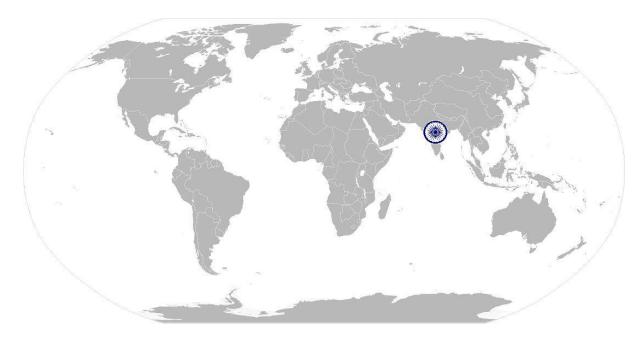
Description	Description gives a short summary of the unit content. This would be	
	helpful to anyone searching on a database to verify that this is the	
	appropriate OS they are looking for.	
Scope	Scope is the set of statements specifying the range of variables that an	
	individual may have to deal 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	Occupational Standard(s) National Occupational Standard(s)	
NOS QP		
	National Occupational Standard(s)	
QP	National Occupational Standard(s) Qualifications Pack	
QP UGC	National Occupational Standard(s) Qualifications Pack University Grants Commission	
QP UGC MHRD	National Occupational Standard(s)Qualifications PackUniversity Grants CommissionMinistry of Human Resource Development	







National Occupational Standard



Overview

This unit is about carrying out the preventive machine maintenance procedures on a regular basis







	Unit Code AMH/1901	
	Unit Title	Carryout preventive machine maintenance procedures
	(Task)	carryout preventive machine maintenance procedures
	Description	This unit is about carrying out the preventive machine maintenance procedures on a regular basis
	Scope	This unit/task covers the following:
		 Checking the machine is setup correctly and is ready for use
		 Regular cleaning of the machine
		 Machine Lubrication
	Performance Criteria (PC) w.r.t. the Scope	
	Elements	Performance Criteria
	Checking that the	To be competent, you must be able to:
	machine is setup	PC1. check the correct position of thread post and stand.
	correctly & is ready	PC2. check if all the screws are fitted correctly.
	for use	PC3. check the entire bobbin unit. ensure all parts are functioning properly.
		PC4. check the correct position of the thread guides.
4		PC5. check and ensure that all thread guides are in good condition – no
		rust/damage
		PC6. check if the needle is fitted correctly and the needle screw is tightly fixed
		PC7. check the needle. in case of damage coplace the needle and the needle screw.
		PC8. check the needle system and size
		check needle system, i.e. right needle for the machine type
		check that the size of the needle is right for the thread
		check that the needle point is correct for the sewing material
		PC9. check if presser foot is in the right position
		Ioosen the screw of presser roller/foot bar to adjust & then tighten it
		PC10. check that the needle plate is not damaged. in case of damage, replace the
		needle plate or polish.
		PC11. check the timing between the needle and hook, and make adjustments to
		correct the same if required.
		PC12. check that the thread take-up spring is not broken, and replace the same if
		required.
		PC13. check the tension of the spring. adjust if required.
		PC14. check the stitch tension, adjust if required.
		PC15. check the stitch length, adjust the spi as per given specifications.
		PC16. check the correct position of knee lifter. adjust the knee lever so that it can be
		conveniently operated with the right knee
		PC17. check if foot pedal is in the right position. adjust/replace/re-align if required.
		PC18. check the tension after the technical/maintenance work on the machine is
		completed and check the test stitches. make further adjustments if required.
		PC19. minimise and dispose the waste materials in the approved manner
		PC20. leave work area safe and secure when work is complete
	Cleaning of the	PC21. clean the machine using the right solution







machine	DC22, shady that the machine should not have must		
machine	PC22. check that the machine should not have rust.		
	PC23. open the tension unit and clean each part.		
	PC24. re-assemble the tension unit again.		
	PC25. loosen the screw, take out the thread plate and clean. put it back again		
	after cleaning.		
	PC26. clean the bobbin case from the inside.		
	PC27. clean the inside part of the hook		
	PC28. clean the machine bed. lift the machine and clean all the parts under the machine.		
	PC29. use the correct tools for cleaning & maintenance work.		
	PC30. carry out cleaning & maintenance of machines as per the work schedule		
	on a regular basis.		
Machine Lubrication	PC31. check that the lubrication points are clean.		
	PC32. put few drops in the lubrication points (in case of manual machines)		
	PC33. open the hook set and oil (in case of manual machines)		
	PC34. check the level of oil.		
	PC35. put oil if required or change the oil (depending on the type of machine).		
	PC36. regulate the quantity of oil in the hook		
Knowledge and Under			
A. Organizational	You need to know and understand:		
Context	KA1. your organization's policies, procedures, guidelines and standards KA2. safe working practices and organisational procedures		
(Knowledge of the company/	KA2. safe working practices and organisational proceduresKA3. quality systems and other processes practiced in the organization		
organization and	KA3. types of problems with quality and how to report them to appropriate people		
its processes)	KA5. methods to present any ideas for improvement to line manager		
its processes	KAS. The importance of complying with written instructions		
	KAO. The importance of comprying with written instructions KA7. reporting procedure in case of faults in own/ other processes		
	KA8. who to refer problems to when they are outside the limit of your authority		
	KA9. your organization's tools, templates and processes for machine maintenance		
B. Technical	You need to know and understand:		
Knowledge	KB1. types of industrial sewing machines		
Kilowicuge	KB2. identification of right tools for machine maintenance		
	KB3. different parts of sewing machine & their functions		
	KB4. purpose of lubrication, oil used for machines, oil used for thread lubrication		
	KB5. lubrication systems		
	KB6. oil consumption		
	KB7. stitch formation and types		
	KB8. different types of feed mechanism in sewing machines		
	KB9. needle systems		
	KB10. checking the details in the specs sheet and techpack		
	KB11. thread thickness, shade and sizes		
	KB12. types of needles & their suitability		







Ski	lls (S)			
Α.	Core Skills/	Writing Skills		
	Generic Skills	You need to know and understand how to:		
		SA1. Write in local language		
		SA2. Mark garment specifications		
		SA3. Write the required measurements where applicable		
		Reading Skills		
		You need to know and understand how to:		
		SA4. Read a techpack/specificifications sheet/specs chart		
		SA5. Read and understand the buyer/client's requirements		
		Oral Communication (Listening and Speaking skills)		
		You need to know and understand how to:		
		SA6. listen effectively and orally communicate information accurately		
		SA7. ask for clarification and advice from others		
в.	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		
		Customer Centricity		
		NA		
		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		







NOS Version Control

NOS Code	AMH/N 1901		
Credits (NSQF)	TBD	Version number	1.0
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	05/11/14
Industry Sub-sector	Apparel	Last reviewed on	15/11/14
Occupation	Machine Maintenance	Next review date	30/12/15





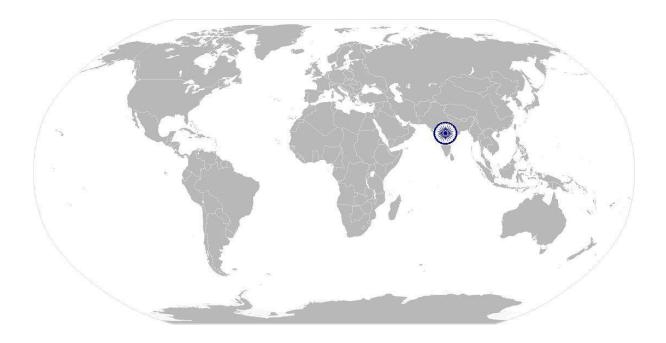




AMH/N 1902

Troubleshoot machine related problems

National Occupational Standard



Overview

This unit is about dealing with faults in stitching and troubleshooting machine related problems. identifying the cause of defect/faults in sewing related operations and making adjustments/replacements in the machine to rectify the same.







AMH/N 1902

i roublesnoot machine related problems

Unit Code	AMH/N 1902	
Unit Title (Task)	Troubleshoot machine related problems	
Description	This unit is about dealing with faults in stitching and troubleshooting machine related problems.	
Scope	 This unit/task covers the following: Identify stitching defects, their cause & method of troubleshooting Resolving machine related issues 	
Performance Criteria (PC) w	.r.t. the Scope	
Element	Performance Criteria	
Identifying stitching defects, their cause & method of troubleshooting	 To be competent, you must be able to: PC1. identify common machine related issues that affect stitching PC2. identify the cause and method of troubleshooting if machine runs with difficulty PC3. if machine starts with slow running, identify the cause and take appropriate action to rectify the same. PC4. identify the cause and method of troubleshooting for upper thread tearing PC5. identify the cause and method of troubleshooting for lower thread tearing PC6. resolve issues such as skipping extitches PC7. take appropriate action in case of needle breakage PC8. resolve the issues of difficult and uneven machine feeding PC9. take appropriate action in case of incorrect stitch locking, threads locked on the top side or bottom side of sewn material. PC10. take appropriate action if hook is blocked. PC11. troubleshoot the issue of little reserve of upper thread for which machine does not start sewing, upper thread leaves needle eye at the startof next sewing. PC12. troubleshoot the issue of machine starting to sew only after having skipped some stitches PC14. resolve machine issues such as when starting sewing operation, upper thread end projects above thesewn material 	
Resolve machine related issues	 PC15. replace machine part in case of damage or as appropriate. PC16. make required adjustments in the machine settings to ensure stitching quality is achieved as per given specifications PC17. analyze the stitching/machine problem, check for solution and take 	
	appropriate action	
Knowledge and Understand		
A. Organizational	You need to know and understand:	
Context	KA10. Details of the job role and responsibilities	
(Knowledge of the	KA11. Responsibilities and line of reporting within the work area	
company/	KA12. Protocol to obtain more information on work related tasks	



NOS National Occupational Standards



AMH/N 1902	i roublesnoot machine related problems
organization and its processes)	KA13. Organizational policies and procedures KA14. who to refer problems to when they are outside the limit of your authority
	KA15. Common hazards in the work area and procedures for dealing with them KA16. Procedures with regard to material re-usage and disposal
	KA17. Quality standards and the reporting procedures KA18. Documentation required as part of the process
B. Technical Knowledge	You need to know and understand: KB13. machine specifications
	KB14. different types of stitching defects & their cause KB15. technical terms associated with sewing machines & apparel industry KB16. quality standards for stitching
	KB17. different types of machine beds KB18. different types of feed mechanism in sewing machines KB19. types of motors and power consumption
	KB20. types of belts, machine speed KB21. do's &dont's of sewing KB22. types of maintenance – preventive, breakdown and routine
Skills (S)	KB23. the operation of a sewing machine
A. Core Skills/	Writing Skills
Generic Skills	You need to know and understand how to: SA8. Write in local language SA9. Write the required measurements where applicable
	Reading Skills
	You need to know and understand how to: SA10. Read a techpack/specificifications sheet/specs chart
	Oral Communication (Listening and Speaking skills)
	You need to know and understand how to:
	SA11. listen effectively and orally communicate information accurately SA12. ask for clarification and advice from others
B. Professional Skills	Decision Making
	You need to know and understand how to:
	SB11. follow rule-based decision-making processes
	SB12. make decisions on a suitable course of action or response
	Plan and Organize You need to know and understand how to:
	SB13. plan and organize your work to achieve targets and deadlines
	Customer Centricity
	NA
	Problem Solving
	You need to know and understand how to:
	SB14. apply problem-solving approaches in different situations
	SB15. refer anomalies to the supervisor



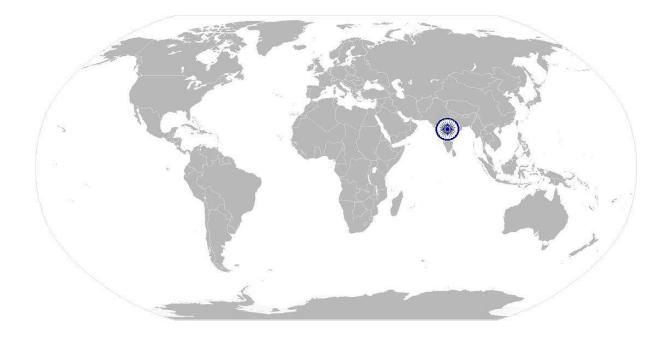
NOS National Occupational Standards



AMH/N 1902

i roublesnoot machine related problems

	SB16. seek clarification on problems from others
	Analytical Thinking
	You need to know and understand how to:
	SB17. analyze data and activities
	SB18. pass on relevant information to others
Critical Thinking	
	You need to know and understand how to:
	SB19. provide opinions on work in a detailed and constructive way
	SB20. apply balance judgments to different situations





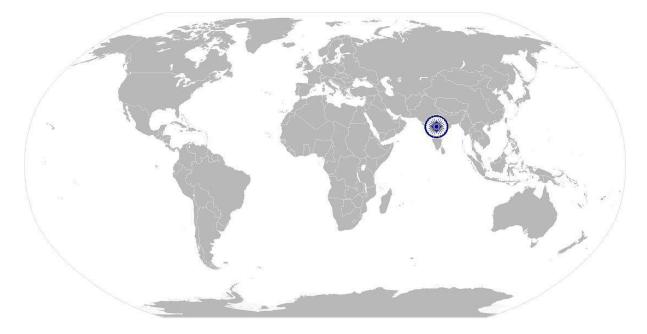




AMH/N 1902 Troubleshoot machine related problems

NOS Version Control

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Credits (NSQF)	TBD	Version number	1.0
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	05/11/14
Industry Sub-sector	Apparel	Last reviewed on	15/11/14
Occupation	Machine Maintenance	Next review date	30/12/15

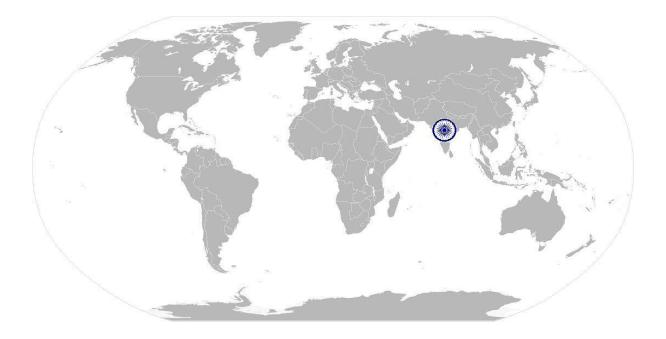








National Occupational Standard



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







Unit Code	AMH/N0102
UnitTitle (Task)	Maintainworkarea, tools and machines
Description	ThisunitprovidesPerformanceCriteria,Knowledge&UnderstandingandSkills&Abi
	lities
	required to organise/maintain work are as and activities to ensure tools and machine
	sare maintainedaspernorms
Scope	Thisunit/taskcoversthefollowing:
	1. Maintaintheworkarea, tools and machines
PerformanceCriteria	a(PC)w.r.tthe Scope
Elements	PerformanceCriteria
Maintainthe	Tobecompetent, the user/individual on the job must be able to:
work	PC1. handle materials, machinery, equipment and toolssafely and correctly
area, tools and m	PC2. Usecorrectliftingandhandlingprocedures
achines	PC3. Usematerialstominimizewaste
	PC4. Maintainacleanandhazardfreeworkingarea
	PC5. Maintaintoolsandequipment
	PC6. carryoutrunningmaintenancewithinagreedschedules
	PC7. carryoutmaintenanceand/orcleaningwithinone'sresponsibility
	PC8. reportunsafeequipmentandotherdangerousoccurrences
	PC9. ensurethatthecorrectmachineguardsareinplace
	PC10. workin a comfortable positionwith the correct posture
	PC11. use cleaning equipment and methods appropriate for the work to be
	carriedout
	PC12. disposeofwastesafelyinthedesignatedlocation
	PC13. storecleaningequipmentsafelyafter use
	PC14. carryoutcleaningaccordingtoschedulesandlimitsofresponsibility
-	erstanding (K)w.r.t.theScope
Elements	KnowledgeandUnderstanding
A. Organisational	Theuser/individualonthe job needs toknowandunderstand:
Context	KA1. Personal hygieneanddutyof care
(Knowledgeofthe	KA2. SafeworkingpracticesandorganisationalproceduresKA3. Limitsofyourownresponsibility
company/	KA4. Waysofresolvingwithproblemswithintheworkarea
organisationand its processes)	KA4. Waysoffesolvingwithproblemswithintneworkarea
its processes)	The production process and the specific work activities that relate to the w
	holeprocess
	KA6. Theimportanceofeffectivecommunicationwithcolleagues
	KAO. The lines of communication, authority and reporting procedures
	KA8. Theorganisation'srules, codes and guidelines (including time keeping)
	KA9. Thecompany's quality standards
	KA3. The importance of complying with written instructions
	KA10. Equipmentoperatingprocedures/manufacturer's instructions







D Technical/	They ser /individual on the ich needs to know and understand.					
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					
Skills (S)w.r.ttheSco	pe					
Elements	Skills					
A. Core Skills /	Writing Skills					
Generic Skills	The user/individual on the job-needs to know and understand how to:					
	SA1. Document and report any health and safety related incidents/ accidents					
	Reading Skills					
	The user/ individual on the job needs to know and understand how to: SA2. Read and comprehend manuals of operations					
	SA2. Read and comprehend manuals of operations SA3. Read all organizational and equipment related health and safety manuals					
	and documents					
	and machine operations					
	Oral Communication (Listening and Speaking Skills)					
	The user/individual on the job needs to know and understand how to:					
	SA5. Give clear instructions to co-workers, subordinates and other personnel					
	SA6. Use correct technical terms while interacting with supervisor					
B. Professional	Decision Making					
Skills	The user/ individual on the job needs to know and understand how to:					
	SB1. Make an appropriate timely decision in responding to					
	emergencies/accidents in line with organization					
	SB2. Evaluate and use correct PPE and other safety gear while at the					
	workplace					
	Plan and Organize					
	The user/individual on the job needs to know and understand how to:					
	SB3. Work with supervisors/ team mates to carry out work related tasks					
	SB4. Plan work according to the required schedule					
	SB5. Keep work area free from potential hazards					
	Customer Centricity					
	The user/ individual on the job needs to know and understand how to:					
The user/ individual of the job fleeds to know and understand how to:						







 SB6. Ensure and follow organizational procedures pertaining to health and safety are followed Problem Solving The user/ individual on the job needs to know and understand how to: SB7. Take appropriate actions during emergencies, accidents or fire at the workplace SB8. Resolve issues pertaining to malfunctions in machineries and report if required Analytical Thinking The user/ individual on the job needs to know and understand how to: SB9. Identify emergency situations SB10. Identify cause effect relationship for the emergencies Critical Thinking The user/ individual on the job needs to know and understand how to:
Problem Solving The user/ individual on the job needs to know and understand how to: SB7. Take appropriate actions during emergencies, accidents or fire at the workplace SB8. Resolve issues pertaining to malfunctions in machineries and report if required Analytical Thinking The user/ individual on the job needs to know and understand how to: SB9. Identify emergency situations SB10. Identify cause effect relationship for the emergencies Critical Thinking
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SB9.Identify emergency situationsSB10.Identify cause effect relationship for the emergenciesCritical Thinking
SB10. Identify cause effect relationship for the emergencies Critical Thinking
SB10. Identify cause effect relationship for the emergencies Critical Thinking
The user/individual on the job needs to know and understand how to:
SB11. Analyze, evaluate and apply the information gathered from observation,
experience, reasoning, or communication to act efficiently









NOS Code	AMH/N 0102					
Credits (NSQF)	TBD	Version number	1.0			
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	05/11/14			
Industry Sub-sector	Apparel	Last reviewed on	15/11/14			
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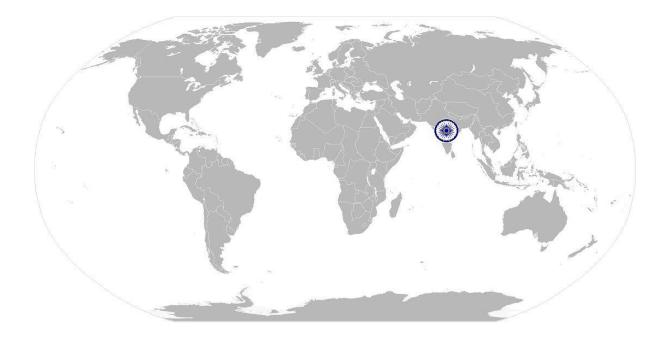






AMH/N0103 Maintain health, safety and security at workplace

National Occupational Standard



Overview

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







AMH/N0103 Maintain health, safety and security at workplace

	Unit Code	AMH/N 0103					
	UnitTitle (Task)	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					
	Scope	Thisunit/taskcoversthefollowing: 1. Complywith health, safetyandsecurityrequirementsatwork					
		1. Complywith health, saletyandsecuntyrequirementsatwork					
	PerformanceCriteria(PC)w.r.tthe Scope						
Elements PerformanceCriteria							
	Comply with	Tobe competent, theuser/individual onthejobmustbeableto:					
	health,safetyand	PC1. comply with health and safety related instructions applicable to the workplace					
	security	PC2. useandmaintainpersonalprotectiveequipmentasperprotocol					
	requirementsatwo rk	PC3. carryoutownactivitiesinlinewith approved guidelinesandproceduresPC4.					
		maintainahealthylifestyleandguardagainstdependencyonintoxicantsPC5. followenvironmentmanagementsystemrelated procedures					
		PC6. identifyandcorrect(ifpossible)malfunctionsinmachineryandequipment					
		PC7. reportanyservicemalfunctionsthatcanneerectified					
		PC8. store materials and equipment in line with manufacturer's and					
		organisational requirements					
		PC9. safelyhandleandmovewasteanddebris					
		PC10. minimizehealthandsafetyriskstoselfandothersdueto own actions					
		PC11. seekclarifications, from supervisors or other authorized personnel incase 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, if asked to doso					
		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. Organisational	Theuser/individualonthe job needs toknowandunderstand:					

NationalOccupationalStandard







AMH/N0103 Maintain health, safety and security at workplace

(Knowledge of the	KA1. Health and safety related practices applicable at the workplace					
company /	KA2. Potential hazards, risks and threats based on nature of operations					
organisation and	KA3. Organizational procedures for safe handling of equipment and machine					
its processes)	operations					
	KA4. Potential risks due to own actions and methods to minimize these					
	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					
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	pe					
Elements	Skills					
A. Core Skills	Writing Skills					
/ Generic	The user/ individual on the job needs to know and understand how to:					
Skills	SA7. Document and report any health and safety related incidents/ accidents					
••	Reading Skills					
	Reading Skills					
	The user/ individual on the job needs to know and understand how to:					
	The user/ individual on the job needs to know and understand how to:					
	The user/ individual on the job needs to know and understand how to: SA8. Read and comprehend manuals of operations					
	The user/ individual on the job needs to know and understand how to: SA8. Read and comprehend manuals of operations SA9. Read all organizational and equipment related health and safety manuals and					
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AMH/N0103 Maintain health, safety and security at workplace

Customer Centricity						
The user/ individual on the job needs to know and understand how to:						
SB17. Ensure and follow organizational procedures pertaining to health and safety						
are followed						
Problem Solving						
The user/ individual on the job needs to know and understand how to:						
SB18. Take appropriate actions during emergencies, accidents or fire at the						
workplace						
SB19. Resolve issues pertaining to malfunctions in machineries and report if						
required						
Analytical Thinking						
The user/ individual on the job needs to know and understand how to:						
SB20. Identify emergency situations						
SB21. Identify cause effect relationship for the emergencies						
Critical Thinking						
The user/individual on the job needs to know and understand how to:						
SB22. Analyze, evaluate and apply the information gathered from observation,						
experience, reasoning, or communication to act efficiently						

NOS Version Control

NOS Code	Ę.	AMH/N 0103	and the second s
Credits (NSQF)	TBD	Version number	1.0
Industry	Apparel, Made-Up's and Home Furnishing	Drafted on	05/11/14
Industry Sub-sector	Apparel	Last reviewed on	15/11/14
Occupation	Machine Maintenance	Next review date	30/12/15





CRITERIA FOR ASSESSMENT OF TRAINEES

Machine Maintenance Mechanic: Sewing Machine AMH/Q1901 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. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)

4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria

5. To pass the Qualification Pack, every trainee should score a minimum of 70% aggregate in QP

6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack

				Marks Allocation		
		Total Marks	Out of	Th eor y	Skill s Prac tical	Viva
1. AMH/N 1901 (Carry	PC1. Check the correct position of thread post and stand.		3	1	1	1
out	PC2. Check if all the screws are fitted correctly.		3	1	1	1
preventive machine maintenance	PC3. Check the entire bobbin unit. Ensure all parts are functioning properly.		3	1	1	1
procedures)	PC4. Check the correct position of the thread guides.	110	3	1	1	1
	PC5. Check and ensure that all thread guides are in good condition – no rust/damage		3	1	1	1
	PC6. Check if the needle is fitted correctly and the needle screw is tightly fixed]	3	1	1	1
	PC7. Check the needle. In case of damage replace the needle and the needle screw.		3	1	1	1







Ø Check needle system, i.e. right needle for the machine type Ø Check that the needle point is correct for the sewing materialIIIPC9. Check if presser foot is in the right position - Loosen the screw of presser roller/foot bar to adjust & then tighten itIIIPC10. Check that the needle plate is not damaged. In case of damage, replace the needle plate or polish.IIIIPC11. Check that the needle plate is not damaged. In case of damage, replace the needle plate or polish.IIIIPC12. Check that the timing between the needle and hook, and make adjustments to correct the same if required.IIIIIPC12. Check that the thread take-up spring is not broken, and replace the same if required.IIIIIPC13. Check the tension of the spring. Adjust if required.IIIIIIPC14. Check the stitch length, adjust the SPI as per given specifications.IIIIIPC15. Check the correct position of knee lifter. Adjust the knee lever so that it can be conveniently operated with the right kneeIIIIIPC17. Check if foot pedal is in the right position. Adjust/replace/re-align if required.IIIIIPC19. Minimise and dispose the waste materials in the approved mannerPC19. Minimise and dispose the waste materials in the approved mannerIIIIIPC20. Leave work area safe and secure when work is completeIIII <tdi< t<="" th=""><th>PC8. Check the needle system and size</th><th></th><th></th><th></th><th></th></tdi<>	PC8. Check the needle system and size				
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Adjust/replace/re-align if required.11PC18.Check the tension after the technical/maintenance work on the machine is completed and check the test stitches. Make further adjustments if required.11PC19. Minimise and dispose the waste materials in the approved manner111PC20. Leave work area safe and secure when work is complete3111111111	PC17. Check if foot pedal is in the right position.				
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work on the machine is completed and check the test stitches. Make further adjustments if required.421PC19. Minimise and dispose the waste materials in the approved manner3111PC20. Leave work area safe and secure when work is complete3111					
stitches. Make further adjustments if required.421PC19. Minimise and dispose the waste materials in the approved manner3111PC20. Leave work area safe and secure when work is complete3111					
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approved manner311PC20. Leave work area safe and secure when work is complete311	stitches. Make further aujustments in required.	4	2	T	Ţ
PC20. Leave work area safe and secure when work is complete 3 1 1	PC19. Minimise and dispose the waste materials in the				
complete 3 1 1 1	approved manner	3	1	1	1
complete 3 1 1 1	PC20. Leave work area safe and secure when work is				
PC21. Clean the machine using the right solution311		3	1	1	1
PC21. Clean the machine using the right solution 3 1 1 1					
	PC21. Clean the machine using the right solution	3	1	1	1







	PC22. Check that the machine should not have rust.		3	1	1	1
			,	-	-	-
	PC23. Open the tension unit and clean each part.		3	1	1	1
	PC24. Re-assemble the tension unit again.		3	1	1	1
	PC25. Loosen the screw, take out the thread plate and					
	clean. Put it back again after cleaning.		3	1	1	1
	PC26. Clean the bobbin case from the inside.		3	1	1	1
	PC27. Clean the inside part of the hook		3	1	1	1
	PC28. Clean the machine bed. Lift the machine and clean					
	all the parts under the machine.		3	1	1	1
	PC29. Use the correct tools for cleaning & maintenance					
	work.		3	1	1	1
	PC30. Carry out cleaning & maintenance of machines as					
	per the work schedule on a regular basis.		3	1	1	1
	PC31. Check that the lubrication points are clean.		3	1	1	1
	PC32. Put few drops in the lubrication points (in case of					
	manual machines)		3	1	1	1
	PC33. Open the hook set and oil (in case of manual					
	machines)		3	1	1	1
	PC34. Check the level of oil.		3	1	1	1
	PC35. Put oil if required or change the oil (depending on					
	the type of machine).		3	1	1	1
	PC36. Regulate the quantity of oil in the hook		3	1	1	1
		Total	110	38	36	36
2. AMH/N	PC1. Identify common machine related issues that affect					
1902 (Troubleshoo	stitching		6	2	2	2
t machine	PC2. Identify the cause and method of troubleshooting if	90	C	4	2	
related	machine runs with difficulty		6	1	2	3
problems)	PC3. If machine starts with slow running, identify the cause		C	2	2	2
	and take appropriate action to rectify the same.		6	2	2	2







	PC4. Identify the cause and method of troubleshooting for upper thread tearing		8	4	2	2
	PC5. Identify the cause and method of troubleshooting for Lower thread tearing		8	4	2	2
	PC6. Resolve issues such as skipping of stitches		6	2	2	2
	PC7. Take appropriate action in case of Needle breakage		6	2	2	2
	PC8. Resolve the issues of difficult and uneven machine feeding		4	2	1	1
	PC9. Take appropriate action in case of Incorrect stitch locking. Threads locked on the top side or bottom side of sewn material.		4	2	1	1
	PC10. Take appropriate action if hook is blocked.		4	1	2	1
	PC11. Troubleshoot the issue of little reserve of upper thread for which machine does not start sewing, upper thread leaves needle eye at the start of next sewing.		4	1	2	1
	PC12. Troubleshoot the issue of little reserve of lower thread, when machine does not start sewing		6	2	3	1
	PC13. Resolve the issue of machine starting to sew only after having skipped some stitches		4	1	2	1
	PC14. Resolve machine issues such as when starting sewing operation, upper thread end projects above the sewn material		4	2	1	1
	PC15. Replace machine part in case of damage or as appropriate.		4	2	1	1
	PC16. Make required adjustments in the machine settings to ensure stitching quality is achieved as per given specifications		6	3	2	1
	PC17. Analyze the stitching/machine problem, check for solution and take appropriate action		4	2	1	1
		Total	90	35	30	25
3. AMH/N	PC1. Handle materials, machinery, equipment and tools	100	10	4	2	4
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0102 (Maintain	safely and correctly					
work area, tools &	PC2. Use correct lifting and handling procedures		8	4	2	2
machines)	PC3. Use materials to minimize waste		6	2	2	2
	PC4. Maintain a clean and hazard free working area		6	2	2	2
	PC5. Maintain tools and equipment		6	2	2	2
	PC6. Carry out running maintenance within agreed schedules		7	3	2	2
	PC7.Carry out maintenance and/or cleaning within one's responsibility		8	4	2	2
	PC8.Report unsafe equipment and other dangerous occurrences		7	3	2	2
	PC9.Ensure that the correct machine guards are in place		6	2	2	2
	PC10.Work in a comfortable position with the correct posture		6	2	2	2
	PC11.Use cleaning equipment and methods appropriate for the work to be carried out		8	4	2	2
	PC12.Dispose of waste safely in the designated location		8	3	3	2
	PC13.Store cleaning equipment safely after use		6	2	2	2
	PC14.Carry out cleaning according to schedules and limits of responsibility		8	3	3	2
		Total	100	40	30	30
4. AMH/N 0103 (Maintain health, safety and security at workplace)	PC1. Comply with health and safety related instructions applicable to the workplace		8	4	1	3
	PC2.Use and maintain personal protective equipment as per protocol	100	6	2	2	2
	PC3.Carry out own activities in line with approved guidelines and procedures		6	2	2	2
	PC4.Maintain a healthy lifestyle and guard against		6	3	1	2







Grand Total		400	150	125	125
	Total	100	37	29	34
PC18. Follow organisation procedures for shutdown and evacuation when required		6	2	1	3
PC17. Take action based on instructions in the event of fire, emergencies or accidents		4	1	2	1
PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		4	1	2	1
PC15.Participate in mock drills/ evacuation procedures organized at the workplace		4	1	2	1
PC14.Report hazards and potential risks/ threats to supervisors or other authorized personnel		6	1	2	3
PC13.Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		4	1	1	2
PC12.Monitor the workplace and work processes for potential risks and threats		6	2	2	2
PC11.Seek clarifications, from supervisors or other authorized personnel in case of perceived risks		6	3	1	2
PC10. Minimize health and safety risks to self and others due to own actions		4	2	1	1
PC9.Safely handle and move waste and debris		6	2	2	2
PC8.Store materials and equipment in line with manufacturer's and organisational requirements		6	2	2	2
PC7.Report any service malfunctions that cannot be rectified		4	2	1	1
PC6.Identify and correct (if possible) malfunctions in machinery and equipment		6	2	2	2
PC5.Follow environment management system related procedures		8	4	2	2
dependency on intoxicants					





