

Model Curriculum

Harness Maker

SECTOR: LEATHER
SUB-SECTOR: GOODS AND GARMENTS
OCCUPATION: HARNESS MAKING
REF ID: LSS/Q7201, V1.0
NSQF LEVEL: 4



Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

LEATHER SECTOR SKILL COUNCIL

for

MODEL CURRICULUM

Complying to National Occupational Standards of
Job Role/Qualification Pack: **'Harness Maker'** QP No. **'LSS/Q 7201 NSQF Level 4'**

Date of issuance: June 6th, 2018

Valid up to*: June 12th, 2021

*Valid up to the next review date of the Qualification Pack or the
"Valid up to" date mentioned above (whichever is earlier)



Authorised Signatory
(Leather Sector Skill Council)

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Harness Maker

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “**Harness Maker**”, in the “**Leather**” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Harness Maker		
Qualification Pack Name & Reference ID.	Harness Maker LSS/Q7201		
Version No.	1.0	Version Update Date	31-03 – 2015
Pre-requisites to Training	Class V		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Gain knowledge on overview of leather industry and generic skills: General instructions to importance of leather industry, general hazards in leather industry, basic health safety and hygiene precautions, generic skills to be followed in leather industry • Carry out harness making operations: Ensure the work area is free from hazards and clean, obtain and check the data on the specification sheet, receive instructions and clarify doubts, plan the harness making operations, monitor and provide technical advice to the team, visually inspect each component, troubleshoot the errors and provide solution, inspect the final product • Contribute to achieving the product quality in harness making: Monitor the quality of the production while undertaking cutting and stitching related activities to ensure components is as per specification • Maintain the work area, tools and machines: Ensure correct handling of material, tools and machines, maintain clean and hazard free work area, proper usage of cleaning equipment, maintain and store workplace tools and equipment, dispose waste safely, report the need for maintenance, maintain appropriate environment to protect stock • Maintain health, safety and security at workplace: Comply with health, safety and security requirements at the workplace and covers procedures to prevent, control and minimize risk to self, environment and other • Comply with industry, regulatory and organizational requirements: Carry out work in accordance with organizational guidelines and procedures, identify and report any possible deviation 		

This course encompasses 5 out of 5 National Occupational Standards (NOS) of “Harness Maker” Qualification Pack issued by “Leather Sector Skill Council”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Overview on leather industry and generic skills</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code LSS/N7201, LSS/N7202, LSS/N8501, LSS/N8601, LSS/N8701</p>	<ul style="list-style-type: none"> • Explain the importance of leather industry • Describe leather manufacturing process • Explain general hazards or risk that can lead to accidents • Follow basic safety, health and hygiene measures • Wear and use PPE for safety • Carry out communication effectively with co-workers in writing as well as orally • Read and understand manuals, health and safety instructions, job cards, reports etc 	<p>Chairs, Trainers desk and Computer, Student table, Projector, White projector screen, White board, Flip chart display stand, Safety Hazard signs, Newspaper, Stationery, PPE set</p>
2	<p>Carry out the harness making operations</p> <p>Theory Duration (hh:mm) 20:00</p> <p>Practical Duration (hh:mm) 98:00</p> <p>Corresponding NOS Code LSS/N7201</p>	<ul style="list-style-type: none"> • Ensure the work area is free from hazards as per the safety norm of the organization • Ensure all the harness components are free from defects as per the set quality parameters • Study the design and clarify doubts with supervisor in case of any questions, as per organization protocol • Plan the harness making operations as per the design requirements • Perform the edge cutting of the cut components, as per specifications • Ensure the cut components are skived as per the specification • Ensure the edges of the cut components are buffed appropriately, as per specification • Ensure the edges of the cut components are colored appropriately, as per specifications • Ensure the edges of the cut components are finished appropriately, as per specifications • Ensure the leather strips are marked appropriately for stitching, as per specifications • Ensure the leather strips are assembled appropriately, as per specifications • Ensure the harness is completed within the prescribed time, as per specifications • Ensure the assembled components complies to the design specifications • Ensure the final product meets all the design specifications 	<p>Leather sheet, Pattern for harness components, Marking tools, Hand clicking knife, Skiving machine, Buffing machine, Leather color, Pricking awl, Revolving punch, Stitching thread, Stitching awl, Thread trimmer, Scissors, Spring divider, Steel rule, Wooden mallet, Indenting scissors, Welt knife, Nail puller, Nails, Iron head hammer, Leather thickness measuring gauge, Manchester nippers, Hand sewing needles, Thread, Dendrite paste, Pasting brushes, Leather marking tools</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
3	<p>Contribute to achieve product quality in harness making</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code LSS/N7202</p>	<ul style="list-style-type: none"> Ensure the final sample is approved by the supervisor Ensure materials and component parts meet specifications Identify causes of faults to maintain product quality Report and replace faulty materials and component parts which do not meet specification Carry out quality checks at agreed intervals and in the approved way Identify process problems that effect product quality and report them promptly to appropriate people Ensure the harnesses are free from production and handling damages Identify faults in finished harness, if any, and trace their causes 	<p>Sample leather defects materials, Leather thickness measuring gauge, Gloves, Helmet, Safety shoe, Ear plug, Apron, Goggles</p>
4	<p>Maintain the work area, tools and machines</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 06:00</p> <p>Corresponding NOS Code LSS/N8501</p>	<ul style="list-style-type: none"> Handle materials, machinery, equipment and tools safely and correctly Use correct lifting procedure and materials to minimize waste Prepare and maintain the work area free from hazard Maintain the work area, tools and equipment in agreed schedules Use correct machine guards and dispose waste safely in the designated location Complete and store accurate records and documentation and give inputs and assist in completing it Maintain appropriate environment to protect stock from pilfering, theft, damage and deterioration 	<p>PPE, Water bucket, Cleaning materials, Mop, Dust bin, Broom, Grease/ Lubricant oil</p>
5	<p>Maintain health, safety and security at workplace</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 06:00</p> <p>Corresponding NOS Code LSS/N8601</p>	<ul style="list-style-type: none"> Identify and correct malfunctions in machinery and equipment Minimize health and safety risks to self and others due to own actions Monitor the workplace and work processes for potential risks and threats Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned Undertake first aid, fire-fighting and emergency response training, if asked to do so Take action based on instructions in the event of fire, emergencies or accidents Follow organisation procedures for shutdown and evacuation when required 	<p>First aid kit, Fire extinguisher, Earplug, Head cover, Helmet, Apron, Gumboot, Respiratory mask, Goggles, Hand gloves, Phenyl, Floor cleaning machine, Safety shower unit, Safety eyewash unit</p>
6	<p>Comply with industry,</p>	<ul style="list-style-type: none"> Carry out work functions in accordance with 	<p>Sample legal</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p>regulatory and organizational requirements</p> <p>Theory Duration (hh:mm) 02:00</p> <p>Practical Duration (hh:mm) 02:00</p> <p>Corresponding NOS Code LSS/N8701</p>	<p>legislation and regulations, organizational guidelines and procedures</p> <ul style="list-style-type: none"> • Apply and follow policies and procedures within the work practices • Identify and report any possible deviation to ethical requirements 	<p>documents according to factory act</p>
	<p>Total Duration</p> <p>Theory Duration 40:00</p> <p>Practical Duration 160:00</p>	<p>Unique Equipment Required: Leather sheet, Pattern for harness components, Marking tools, Hand clicking knife, Skiving machine, Buffing machine, Leather color, Pricking awl, Revolving punch, Stitching thread, Stitching awl, Thread trimmer, Scissors, Spring divider, Steel rule, Wooden mallet, Indenting scissors, Leather sewing machine, Welt knife, Nail puller, Nails, Iron head hammer, Manchester nippers, Hand sewing needles, Thread, Dendrite paste, Pasting brushes, Sample leather defects materials, Leather marking tools, Leather thickness measuring gauge, Water bucket, Cleaning materials, Mop, Dust bin, Broom, Grease, Lubricant oil, First aid kit, Fire extinguisher, Earplug, Head cover, Helmet, Apron, Gumboot, Respiratory mask, Goggles, Hand gloves, Phenyl, Floor cleaning machine, Safety shower unit, Safety eyewash unit, Sample legal documents according to factory act</p>	

Grand Total Course Duration: 200 Hours, 0 Minutes

(This syllabus/ curriculum has been approved by Leather Sector Skill Council)

Trainer Prerequisites for Job role: “Harness Maker” mapped to Qualification Pack: “LSS/Q7201, v1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “LSS/Q7201, Version 1.0”.
2	Personal Attributes	Aptitude for conducting training, and pre/post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field.
3	Minimum Educational Qualifications	Diploma or B.Tech in leather Goods and Garments technology
4a	Domain Certification	Certified for Job Role: “ <u>Harness Maker</u> ”, mapped to QP: “ <u>LSS/Q7201, v1.0</u> ”. The minimum accepted score is 80%
4b	Platform Certification	Recommended that the trainer is certified for Job Role: “Trainer”, mapped to QP: “MEP/Q0102”. The minimum accepted score as per SSC guidelines is 80%.
5	Experience	Minimum 6 years site experience with Harness Maker (Goods and Garments) Level-4 qualified

Annexure: Assessment Criteria

Assessment Criteria	
Job Role	Harness Maker
Qualification Pack	LSS/Q7201, v1.0
Sector Skill Council	Leather

Sr. No.	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 centre (as per assessment criteria below).
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on these criteria.
5	To pass the Qualification Pack, every trainee should score a minimum of 50% aggregate.
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.

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
1. LSS/N7201: Carry out the harness making operations	PC1. Ensure the work area is free from hazards as per the safety norm of the organization	50	2	0	2
	PC2. Ensure the cleanliness and orderliness of the work place as per the organizational standards		2	0	2
	PC3. Obtain and check the data on the work ticket or job card and carry out functions in line with the responsibilities of job role		1	0	1
	PC4. Ensure all the harness components are free from defects as per the set quality parameters		2	0	2
	PC5. Ensure all the required materials are available, as per production requirements		3	1	2
	PC6. Study the design and clarify doubts with supervisor in case of any questions, as per organization protocol		2	0	2
	PC7. Plan the harness making operations as per the design requirements		3	1	2
	PC8. Ensure the cut leather components are as per the specified quality parameters		2	0	2
	PC9. Perform the edge cutting of the cut components, as per specifications		3	1	2
	PC10. Ensure the cut components are skived as per the specification		2	0	2
	PC11. Ensure the edges of the cut components are buffed appropriately, as per specification		3	1	2
	PC12. Ensure the edges of the cut components are colored appropriately, as per specifications		2	0	2
	PC13. Ensure the edges of the cut components are finished appropriately, as per specifications		3	1	2
	PC14. Ensure the leather strips are marked appropriately for stitching, as per specifications		2	0	2
	PC15. Ensure the leather strips are assembled appropriately, as per specifications		3	1	2
	PC16. Ensure the harness is completed within the prescribed time, as per specifications		2	0	2

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC17. Monitor each operation to ensure design specifications are being met		2	0	2
	PC18. Provide technical advice to the operators as and when required as per the organizational protocol		2	0	2
	PC19. Ensure each component complies to the design specifications		3	1	2
	PC20. Ensure the assembled components complies to the design specifications		2	0	2
	PC21. Ensure the final product meets all the design specifications		2	0	2
	PC22. Ensure the final sample is approved by the supervisor		2	1	1
	Total		50	8	42
2. LSS/N7202: Contribute to achieving product quality in harness making	PC1. Check the performance of the machines for signs of faulty operations and take action in accordance with workplace procedures	40	4	0	4
	PC2. Ensure materials and component parts meet specifications		4	1	3
	PC3. Identify causes of faults to maintain product quality		3	0	3
	PC4. Report and replace faulty materials and component parts which do not meet specification		4	0	4
	PC5. Report faults outside personal responsibility to the appropriate person		3	0	3
	PC6. Ensure the final quality of the harness is as per the specified quality standards		4	0	4
	PC7. Carry out quality checks at agreed intervals and in the approved way		3	0	3
	PC8. Identify process problems that effect product quality and report them promptly to appropriate people		5	1	4
	PC9. Ensure the harnesses are free from production and handling damages		3	0	3
	PC10. Identify faults in finished harness, if any, and trace their causes		4	0	4
	PC11. Manage the helpers work as per the organizational standards and		3	0	3

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	requirements				
		Total	40	2	38
3. LSS/N8501: Maintain the work area, tools and machines	PC1. Handle materials, machinery, equipment and tools safely and correctly	50	2	0	2
	PC2. Use correct lifting and handling procedures		2	0	2
	PC3. Use materials to minimize waste		3	1	2
	PC4. Prepare and organize work		3	1	2
	PC5. Maintain a clean and hazard free working area		3	1	2
	PC6. Deal with work interruptions		3	1	2
	PC7. Move around the workplace with care		2	0	2
	PC8. Maintain tools and equipment		2	0	2
	PC9. Carry out running maintenance within agreed schedules		2	0	2
	PC10. Carry out maintenance and/or cleaning outside responsibility		2	0	2
	PC11. Report unsafe equipment and other dangerous occurrences		3	1	2
	PC12. Ensure that the correct machine guards are in place		2	0	2
	PC13. Work in a comfortable position with the correct posture		3	1	2
	PC14. Use cleaning equipment and methods appropriate for the work to be carried out		2	0	2
	PC15. Dispose of waste safely in the designated location		3	1	2
	PC16. Store cleaning equipment safely after use		1	0	1
	PC17. Complete and store accurate records and documentation		2	0	2
	PC18. Maintain proper lighting, ventilation to make sure general comfort is there while working		2	0	2
	PC19. Give inputs and assist in completing documentation		2	0	2
	PC20. Report the need for maintenance and/or cleaning outside your area of responsibility		2	1	1
	PC21. Ensure safe and correct handling of materials, equipment and tools		2	0	2
	PC22. Maintain appropriate environment to protect stock from		2	0	2

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	pilfering, theft, damage and deterioration				
		Total	50	8	42
4. LSS/N8601: Maintain health, safety and security at workplace	PC1. Comply with health and safety related instructions applicable to the workplace	45	3	0	3
	PC2. Use and maintain personal protective equipment as per protocol		3	1	2
	PC3. Carry out own activities in line with approved guidelines and procedures		2	0	2
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		3	1	2
	PC5. Follow environment management system related procedures		3	0	3
	PC6. Identify and correct (if possible) malfunctions in machinery and equipment		3	1	2
	PC7. Report any service malfunctions that cannot be rectified		2	0	2
	PC8. Store materials and equipment in line with manufacturer's and organizational requirements		2	0	2
	PC9. Safely handle and move waste and debris		3	1	2
	PC10. Minimize health and safety risks to self and others due to own actions		2	0	2
	PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks		2	0	2
	PC12. Monitor the workplace and work processes for potential risks and threats		2	0	2
	PC13. Carry out periodic walk-through to keep work area free from hazards and obstructions, if assigned		3	1	2
	PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel		2	0	2
	PC15. Participate in mock drills/ evacuation procedures organized at the workplace		3	0	3
	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		3	0	3

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	PC17. Take action based on instructions in the event of fire, emergencies or accidents		2	0	2
	PC18. Follow organization procedures for shutdown and evacuation when required		2	0	2
		Total	45	5	40
5. LSS/N8701: Comply with industry, regulatory and organizational requirements	PC1. Carry out work functions in accordance with legislation and regulations, organizational guidelines and procedures	15	3	0	3
	PC2. Seek and obtain clarifications on policies and procedures, from the supervisor or other authorized personnel		4	1	3
	PC3. Apply and follow these policies and procedures within the work practices		2	0	2
	PC4. Provide support to the supervisor and team members in enforcing these considerations		3	1	2
	PC5. Identify and report any possible deviation to these requirements		3	0	3
		Total	15	2	13