

Model Curriculum

Moulding Operator (Footwear - Non Leather)

SECTOR: LEATHER
SUB-SECTOR: FOOTWEAR (NON-LEATHER)
OCCUPATION: MOULDING
REF ID: LSS/Q7501, V1.0
NSQF LEVEL: 4

Certificate

CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

LEATHER SECTOR SKILL COUNCIL

for the

MODEL CURRICULUM

Complying to National Occupational Standards of

Job Role/ Qualification Pack: 'Moulding Operator (Footwear - Non Leather)' OP No. 'LSS/Q7501, NSQF Level 4'

Date of Issuance: April 9th, 2016
Valid up to*: April 10th, 2018

**Valid up to the next review date of the Qualification Pack*


Authorised Signatory
(Leather Sector Skill Council)

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Moulding Operator (Footwear Non-Leather)

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Moulding Operator (Footwear - Non Leather)”, in the “Leather” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Moulding Operator (Footwear - Non Leather)		
Qualification Pack Name & Reference ID.	Moulding Operator (Footwear - Non Leather) LSS/Q7501, V 1.0		
Version No.	1.0	Version Update Date	27-09 – 2016
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. • Prepare the work area: Set up the machines, materials and equipments before starting the operations. • Perform Moulding Operations using moulding machines: Carry out moulding operations using PU pouring machines and Injection moulding machine. • Handle work area, tools and machines appropriately: Ensure correct handling of material, tools and machines, maintain clean and hazard free work area, proper usage of cleaning equipment, maintain correct usage of workplace tools and equipment. • Become well versed with environment, health, safety & security at work: Well versed with health and safety measures in terms of personal safety and equipment safety relevant to moulding occupation. • Follow industrial regularity 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 “Moulding Operator (Footwear Non-Leather)” 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 Core skills/ Generic skills and Professional skills collated from all the NOS of the QP</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 the documents that are necessary for them to read to carry out operator’s task 	Chairs, Trainers desk and Computer, Student table, Projector, White projector screen, White board, Flip chart display stand, Leather hole punch Safety Hazard signs, Newspaper, Stationery, PPE set
2	<p>Carry-out Moulding Operations Using Machine</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 84:00</p> <p>Corresponding NOS Code LSS/N7501</p>	<ul style="list-style-type: none"> • Identify tools and equipments used in moulding operations • Describe the process of moulding in footwear manufacturing • Explain the procedure to operate PU pouring machines and Injection moulding machine • Describe the properties of chemicals used in PU pouring machines and Injection moulding machine • Prepare work area for moulding operation 	Mould, Metal last, Jack, Pincher, Pounding machine, Buffing machine, Injection moulding machine, Spanner set, Allen key, Oil can, Two faced hammer, Scissor, Screwdriver, Mecca knife, Silicon gun
3	<p>Contribute to Achieving Product Quality in Moulding Operation</p> <p>Theory Duration (hh:mm) 05:00</p> <p>Practical Duration (hh:mm) 33:00</p> <p>Corresponding NOS Code LSS/N7502</p>	<ul style="list-style-type: none"> • Identify different types of faults likely to be found in the moulding machines and the process • Explain the importance of product checks 	Stage wise inspection
4	<p>Maintain the Work Area, Tools and Machines</p>	<ul style="list-style-type: none"> • Ensure housekeeping and safety • Maintain workplace, tools and equipment 	Floor/ dust cleaning machine,

Grand Total Course Duration: 200 Hours, 0 Minutes

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

Trainer Prerequisites for Job role: “Moulding Operator (Footwear - Non Leather)” mapped to Qualification Pack: “LSS/Q7501, Version 1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “LSS/Q7501, 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	10 th with 18 months certificate course in Footwear (any) and above.
4a	Domain Certification	Certified for Job Role: “Moulding Operator (Footwear - Non Leather)”, mapped to QP: “LSS/Q7501, Version 1.0”. The minimum accepted score should be as per the decision of the respective SSC guidelines.
4b	Platform Certification	Certified for Job Role: “Trainer”, mapped to QP: “SSC/Q1402”. The minimum accepted score should be as per the decision of the respective SSC guidelines.
5	Experience	Minimum 6 years site experience with Footwear Manufacturing and Moulding Process Level-4 qualified.

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
1. LSS/N7501: Carry out moulding operations using machine	PC1. Make sure the work area is free from hazards	100	3	0	3
	PC2. Obtain and check the data on the work ticket or job card and carry out functions in line with the responsibilities of job role		3	0	3
	PC3. Ask questions to obtain more information on tasks when the instructions are unclear		5	0	5
	PC4. Select and sort the tools and materials for the work		4	0	4
	PC5. Setup the equipment & machineries for lasting as per the job requirement		3	0	3
	PC6. Make sure that tools are safe and clean to use on the material		3	0	3
	PC7. Agree and review agreed upon work targets with supervisor		2	0	2
	PC8. Update and develop knowledge of the products		3	0	3
	PC9. Minimise wastage		8	5	3
	PC10. Produce the required batch of components to match the job card and the company's production targets		1	0	1
	PC11. Dispose of waste materials safely and return re-useable materials		6	0	6
	PC12. Work in conformance to legal requirements, organizational policies and procedures		1	0	1
	PC13. Carry out visual inspection to ensure the products are free from handling defects		14	10	4
	PC14. Ensure adequate chemicals are fed into the PU machine or Injection Moulding machine (EVA)		2	0	2
	PC15. Ensure the machine is at appropriate temperatures		6	5	1
	PC16. Perform the cup test to ensure the quality of PU		3	0	3
	PC17. Monitor the performance of the workers		3	0	3
	PC18. De-last the shoes from the hinged type last or two part		8	5	3

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	metal last as required				
	PC19. Conduct a visual inspection to ensure the quality of the footwear		4	0	4
	PC20. Report risks/ problems likely to affect services to the relevant person promptly and accurately		10	5	5
	PC21. Report defects in the tools and equipment that one do not have the		2	0	2
	PC22. Sort and place work to assist the next stage of production and minimise the risk of damage		2	0	2
	PC23. Carry out closedown procedures on completion of work		2	0	2
	PC24. Leave work area safe and secure when work is complete		2	0	2
	Total		100	30	70
2. LSS/N7502: Contribute to achieving product quality in moulding operation	PC1. Set up and test lasting machines to ensure correct operation	50	1	0	1
	PC2. Operate the machine in accordance with machine and workplace standards		6	5	1
	PC3. Ensure the lasting operation is done accurately according to the specifications.		11	10	1
	PC4. Ensure the optimum condition of the PU pouring and injection moulding machines		1	0	1
	PC5. Check the performance of the machine for signs of faulty operations and take action in accordance with workplace procedures		1	0	1
	PC6. Ensure materials and component parts meet specifications		11	10	1
	PC7. Identify faults in materials and products		1	0	1
	PC8. Follow reporting procedures where the cause of faults cannot be identified		1	0	1
	PC9. Maintain the required productivity and quality levels		1	0	1
	PC10. Carry out quality checks		1	0	1

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	at agreed intervals and in the approved way				
	PC11. Identify process problems that effect product quality and report them promptly to appropriate people		1	0	1
	PC12. Identify causes of faults and take action to rectify the same to maintain product quality		1	0	1
	PC13. Identify faults in finished products and trace their causes		0.5	0	0.5
	PC14. Follow reporting procedures where the cause of faults cannot be identified		8	7	1
	PC15. Report and replace faulty materials and component parts which do not meet specification		3.5	3	0.5
	PC16. Report faults outside personal responsibility to the appropriate person		1	0	1
	Total		50	35	15
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	0	3
	PC4. Prepare and organize work		2	0	2
	PC5. Maintain a clean and hazard free working area		3	0	3
	PC6. Deal with work interruptions		2	0	2
	PC7. Move around the workplace with care		3	0	3
	PC8. Maintain tools and equipment		3	0	3
	PC9. Carry out running maintenance within agreed schedules		4	2	2
	PC10. Carry out maintenance and/or cleaning outside responsibility		2	1	1
	PC11. Report unsafe equipment and other dangerous occurrences		3	2	1
	PC12. Ensure that the correct machine guards are in place		1	0	1
	PC13. Work in a comfortable		2	1	1

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	position with the correct posture				
	PC14. Use cleaning equipment and methods appropriate for the work to be carried out		3	2	1
	PC15. Dispose of waste safely in the designated location		3	2	1
	PC16. Store cleaning equipment safely after use		2	1	1
	PC17. Complete and store accurate records and documentation		2	1	1
	PC18. Maintain proper lighting, ventilation to make sure general comfort is there while working		2	1	1
	PC19. Give inputs and assist in completing documentation		1	0	1
	PC20. Report the need for maintenance and/or cleaning outside your area of responsibility		1	0	1
	PC21. Ensure safe and correct handling of materials, equipment and tools		2	1	1
	PC22. Maintain appropriate environment to protect stock from pilfering, theft, damage and deterioration		2	1	1
	Total		50	15	35
4. LSS/N8601: Maintain health, safety and security at workplace	PC1. Comply with health and safety related instructions applicable to the workplace	25	1	0	1
	PC2. Use and maintain personal protective equipment as per protocol		0.5	0	0.5
	PC3. Carry out own activities in line with approved guidelines and procedures		1	0	1
	PC4. Maintain a healthy lifestyle and guard against dependency on intoxicants		2	0	2
	PC5. Follow environment management system related procedures		5.5	5	0.5
	PC6. Identify and correct (if possible) malfunctions in machinery and equipment		0.5	0	0.5
	PC7. Report any service malfunctions that cannot be rectified		1	0	1
	PC8. Store materials and		1	0	1

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	equipment in line with manufacturer's and organizational requirements				
	PC9. Safely handle and move waste and debris		1	0	1
	PC10. Minimize health and safety risks to self and others due to own actions		0.5	0	0.5
	PC11. Seek clarifications, from supervisors or other authorized personnel in case of perceived risks		0.5	0	0.5
	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		0.5	0	0.5
	PC14. Report hazards and potential risks/ threats to supervisors or other authorized personnel		5.5	5	0.5
	PC15. Participate in mock drills/ evacuation procedures organized at the workplace		0.5	0	0.5
	PC16. Undertake first aid, fire-fighting and emergency response training, if asked to do so		1	0	1
	PC17. Take action based on instructions in the event of fire, emergencies or accidents		0.5	0	0.5
	PC18. Follow organization procedures for shutdown and evacuation when required		0.5	0	0.5
	Total		25	10	15
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	25	8	5	3
	PC2. Seek and obtain clarifications on policies and procedures, from the supervisor or other authorized personnel		3	0	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		9	5	4

Assessable Outcome	Assessment Criteria	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
	considerations				
	PC5. Identify and report any possible deviation to these requirements		3	0	3
	Total		25	10	15
	Grand Total	250	250	100	150