

MODEL CURRICULUM



QP Name: Traffic Safety Marshal

QP Code: SSD/Q0901

QP Version: 1.0

NSQF Level: 2.5

Model Curriculum Version: 1.0

SAFETY SKILL DEVELOPMENT FOUNDATION

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Training Parameters

Sectors	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Chemical / Petrochemical and others.
Sub-Sector	-
Occupation	Transport Engineering, & Safety Management
Country	India
NSQF Level	2.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7543.0804 : Safety Testing Technician
Minimum Educational Qualification and Experience	10 th Grade Pass or equivalent OR 9 th Grade pass with 1.5 years experience OR 8 th Grade Pass with 3 years experience OR Previous relevant qualification of NSQF level 2 with 1 year experience.
Pre-Requisite License or Training	Nil
Minimum Job Entry Age	18 years
Last Reviewed On	31-01-2024
Next Review Date	31-01-2027
Version	1.0
NSQF Approval Date	31-01-2024



Model Curriculum Creation Date	31-01-2024
Model Curriculum Valid Up to Date	31-01-2027
Model Curriculum Version	1.0
Minimum Duration of the Course	300 Hours
Maximum Duration of the Course	300 Hours

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Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

After completing the program, the participant will be able to:-

- Manage smooth movement of traffic at entry & exit of worksite
- Manage smooth movement of traffic inside of worksite
- Divert traffic and clear route at work sites
- Ensure safety compliances for incoming and outgoing pedestrians.
- Effective communicate with drivers & safety protocols
- Maintain records & control of outgoing, incoming of movement of traffic at worksite
- Guide visitors & parking at work sites
- Mark & manage traffic & pedestrian routes at work sites
- Ensure traffic safety measures to minimize any incident or accidents, use of personal safety equipment at entry & exits.
- Implement security measures, and provide first aid support.
- Maintain good & healthy habits, maintain a clean & healthy area and safe disposal of wastes.
- Take care of personal health & good working relations with co-workers.



Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
SSD/N0901 v1.0: Traffic movement & control at worksite.	36:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	90:00 Hours
Module 1: Introduction to Training Program, Overview, assessments, role of “Traffic Safety Marshal”, employment opportunities in Industries	04:00 Hours	00:00 Hours	00:00 Hours	00:00 Hours	04:00 Hours



Module 2: Traffic signs, handling traffic movement, clearing route, pedestrian safety, communicating with drivers and smooth traffic movement inside workplace, safety protocols	32:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	86:00 Hours
SSD/N0902 v 1.0 : Basic Road safety regulations, Health & Safety.	36:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	90:00 Hours
Module 3: Road safety and effective response to accidents and emergencies; provision of immediate first aid assistance; understanding and implementation of road safety regulations, promotion of safe working environment, maintaining good personal safety, health & hygiene.	36:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	90:00 Hours
SSD/N0903 v 1.0: Traffic management at entry & exit and work site.	36:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	90:00 Hours
Module 4: Traffic management at entry and exit points, pedestrian, workers, and visitors' management; parking of vehicles and machinery, keeping routes free of obstructions.	36:00 Hours	44:00 Hours	10:00 Hours	00:00 Hours	90:00 Hours
DGT/VSQ/N0101: Employability Skills	12:00 Hours	18:00 Hours	00:00 Hours	00:00 Hours	30:00 Hours
Module 5: Understand scope in employment, financial dealing, digital	12:00 Hours	18:00 Hours	00:00 Hours	00:00 Hours	30:00 Hours



literacy and communication with employer or customer					
Total Duration	120:00 Hours	150:00 Hours	30:00 Hours	00:00 Hours	300:00 Hours

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Module Details

Module 1: Introduction to Training Program, Overview, assessments, role of “Traffic Safety Marshal”, employment opportunities in Industries

Mapped to SSD/N0901, v1.0

Terminal Outcomes:

- Discuss role of Traffic Safety Marshal role, sectors & industries.
- Employment opportunities, career development & International opportunities.
- Course approach, duration, training & assessment processes.

Duration: 04:00	Duration: 00:00
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none">• Role & responsibilities of Traffic Safety Marshal.• Career progression in the occupation.• Industries for Employment & international opportunities for employment.• Training approach & methodology.• Assessment process & Certification.• The assistance provided by AB/TP/LMIS in employment	
Classroom Aids:	
Black/White Board, Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator’s Guide, Participant’s Handbook.	
Tools, Equipment and Other Requirements	
Nil	



Module 2: Traffic signs, handling traffic movement, clearing route, pedestrian safety, communicating with drivers and smooth traffic movement inside workplace, safety protocols

Mapped to SSD/N0901, v1.0

Terminal Outcomes:

- Learn for smooth movement of traffic at worksite
- Traffic diversion and clearing route
- Ensuring Workforce or pedestrians safety
- Effective communication with drivers & safety protocols
- Record maintenance & control of traffic movement

Duration: 32 Hours	Duration: 44 Hours
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none">● Traffic movement and safety signs● Identifying type of traffic, routes, and movement of vehicles inside the workplace.● Vehicle parking area and pedestrian routes and marking.● Management of traffic movement and regulating the traffic at worksite● Movements of heavy machinery, plants like cranes and forklifts, safety, and other on-site activities● Identifying & marking of parking area and pedestrian route with day & night signs.● Understanding communication with drivers and passing instructions● Records & logbooks maintained for vehicles coming in or going out of the worksite.● Understanding safe parking for waiting vehicles & visitors' vehicles.● Safety instructions and PPE kit for visitors	<ul style="list-style-type: none">● Identify vehicles, machinery, work involved, movement & safety signs● Plan & mark, routes, and movement of vehicles inside workplace, parking area, pedestrian routes.● Plan to manage traffic movement and regulating the traffic at worksite for heavy machinery, plants like cranes and forklifts, safety, and other on-site activities● Identify & mark of parking area and pedestrian route with day & night signs.● Prepare briefing for drivers and prepare safety instructions● Understand records & logbooks maintained for vehicles coming in or going out of the worksite, its importance.● Plan a parking area for waiting vehicles & visitors' vehicles.● Know PPE kits, use for self & visitors.



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Classroom Aids:

Black/White Board, Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook.

Tools, Equipment and Other Requirements

Traffic sign boards, marking tools, measuring tools, Hamlets, Personal protective equipment (PPE), Reflective Jackets, Traffic Sign boards of different purposes, Breathalyzer, Speed Guns/Radar Guns, Road Flares, Traffic Barricades, Two-Way Radios, Stop/Slow Paddles, Hand Signals: (Stopping, Turning, or changing lanes), Whistle, Traffic Baton or Wand and Traffic Cones.

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Module 3: Road safety and effective response to accidents and emergencies; provision of immediate first aid assistance; understanding and implementation of road safety regulations, promotion of safe working environment, maintaining good personal safety, health & hygiene.

Mapped to SSD/N0902, v1.0

Terminal Outcomes:

- Safety measures to minimize any incident or accidents, use of personal safety equipment and emergency drills.
- Assessing and mitigating workplace hazards
- Implementing security measures, and providing first aid support
- Safe disposal of waste materials to minimize adverse effect on environment & re-use.
- Healthy habits, maintenance of clean & healthy areas and healthy working relations among co-workers and subordinates.

Duration: 36 Hours	Duration: 44 Hours
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none">● Risks & hazards with respect to movement of traffic, machines, and pedestrians.● Ways & steps to mitigate traffic hazards.● Understanding and identifying emergencies and emergency protocols at work sites.● Basic road safety requirements and safety instructions for traffic at the workplace.● Promoting safety protocols and procedures for a safe work environment.● Security measures at site to prevent unauthorized access.● Security vulnerabilities and measures for traffic at the workplace.● Understanding on-site safety signage & regulations.● First aid arrangement, providing immediate assistance and maintenance of first aid in	<ul style="list-style-type: none">● Identify risks & hazards with respect to movement of traffic, machines, and pedestrians.● Find ways to mitigate traffic hazards and steps to be taken.● Identify & list emergencies and emergency protocols at work site.● Understand & prepare basic road safety requirements.● Prepare safety instructions for traffic at the workplace.● Find ways to promote safety protocols and procedures for a safe work environment.● List security measures to be taken at the worksite to prevent unauthorized access.● List security issues and vulnerabilities.● Plan for measures for traffic at workplace



<p>ready condition.</p> <ul style="list-style-type: none">● Emergency protocols and emergency response● Procedure, protocol, hierarchy, and control for emergencies.● Health hazards issues at work site, their identification.● Personal health, hygiene, and well-being in the workplace.● Understanding a clean and safe working environment.● Safe disposal of wastes.● Safety training and education to co-workers to enhance awareness and knowledge.	<p>against securities at work place</p> <ul style="list-style-type: none">● Understand & plan on-site safety signage & instructions.● Plan first aid arrangement & location.● Plan tools & equipment for first aid and immediate assistance.● Find means to maintain first aid in ready condition.● Prepare emergency protocols and emergency response systems.● Plan & prepare protocol, hierarchy, and control for emergencies.● Identify & list health hazards issues at work site.● Discuss personal health, hygiene and well-being in the workplace and clean & safe working environment.● Plan ways 7 means for safe disposal of wastes.● Carry out safety training and education to co-workers to enhance awareness and knowledge.
Classroom Aids:	
<p>Black/White Board, Computer, Projection Equipment, MS office & Design & drafting software, Facilitator's Guide, Participant's Handbook.</p>	
Tools, Equipment and Other Requirements	
<p>Traffic sign boards, marking tools, measuring tools, Hamlets, Personal protective equipment (PPE), Reflective Jackets, Traffic Sign boards of different purposes, Breathalyzer, Speed Guns/Radar Guns, Road Flares, Traffic Barricades, Two-Way Radios, Stop/Slow Paddles, Hand Signals: (Stopping, Turning, or changing lanes), Whistle, Traffic Baton or Wand and Traffic Cones.</p>	



Module 4: Traffic management at entry and exit points, pedestrian, workers, and visitors' management; parking of vehicles and machinery, keeping routes free of obstructions.

Mapped to SSD/N0903, v1.0

Terminal Outcomes:

- Traffic & pedestrian management at entry and exits.
- Traffic management & parking inside the work site
- Visitors parking
- Traffic route marking & management

Duration: 36 Hours	Duration: 44 Hours
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none">● Regulating inbound traffic & outbound traffic, pedestrian workers at entrance & exit gates● Record keeping of incoming, outgoing vehicles, and pedestrians.● Parking area maintenance and safe parking of vehicles.● Routes for traffic and means to keep it free of obstruction inside the work site.● Movement of vehicles & pedestrians on marked and defined routes, guidance of inbound traffic as per their work and destination.● Security & safety instructions for each type of traffic and communication to them at entry	<ul style="list-style-type: none">● Prepare plan for regulating inbound traffic & outbound traffic, pedestrian workers at entrance & exit gates● List record to be maintained for incoming, outgoing vehicles.● List record to be maintained for incoming, outgoing pedestrians.● Plan & mark parking area, its maintenance points and safe parking means of vehicles.● Prepare routes for traffic and means to keep it free of obstruction inside the work site.● Plan movement of vehicles & pedestrian routes, guidance plan for inbound traffic as per their work and destination.



<p>and exit.</p> <ul style="list-style-type: none">• Guiding traffic signs & instructions.• Record maintenance for each vehicle & pedestrian coming inside and going outside as per instructions.	<ul style="list-style-type: none">• Prepare security & safety instructions for each type of traffic.• Prepare a communication plan to drivers at entry and exit.• Plan guiding traffic signs & instructions on route.
Classroom Aids:	
<p>Black/White Board, Computer, Projection Equipment, MS office & Design & drafting software, Facilitator's Guide, Participant's Handbook.</p>	
Tools, Equipment and Other Requirements	
<p>Traffic sign boards, marking tools, measuring tools, Hamlets, Personal protective equipment (PPE), Reflective Jackets, Traffic Sign boards of different purposes, Breathalyzer, Speed Guns/Radar Guns, Road Flares, Traffic Barricades, Two-Way Radios, Stop/Slow Paddles, Hand Signals: (Stopping, Turning, or changing lanes), Whistle, Traffic Baton or Wand and Traffic Cones.</p>	

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Module 5: Understand scope in employment, financial dealing, digital literacy and communication with employer or customer

Mapped to DGT/VSQ/N0101

Terminal Outcomes:

- Describe the traits of individual at workplace
- Demonstrate apply employability and entrepreneurship skills at workplace

Duration: 12:00	Duration: 18:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<p>Understand the significance of employability skills in meeting the job requirements</p> <p>Identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices e</p> <p>Explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, selfmotivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc</p> <p>Speak with others using some basic English phrases or sentences</p> <p>Follow good manners while communicating with others</p> <p>Work with others in a team</p> <p>Communicate and behave appropriately with all genders and PwD</p> <p>Report any issues related to sexual harassment</p> <p>Financial and Legal Literacy</p> <p>Use various financial products and services safely and securely</p> <p>Calculate income, expenses, savings etc.</p> <p>Approach the concerned authorities for any</p>	<ul style="list-style-type: none">• Apply employability skills in meeting the job requirements• Identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices e• Explain 21st Century Skills• Speak with others using some basic English phrases or sentences• Follow good manners while communicating with others• Work with others in a team• Communicate and behave appropriately with all genders and PwD• Report any issues related to sexual harassment• Financial and Legal Literacy• Use various financial products and services safely and securely• Calculate income, expenses, savings etc.• Approach the concerned authorities for any exploitation as per legal rights and laws• Essential Digital Skills• Operate digital devices and use its features and applications securely and



exploitation as per legal rights and laws Essential Digital Skills Operate digital devices and use its features and applications securely and safely Use internet and social media platforms securely and safely Entrepreneurship Identify and assess opportunities for potential business Identify sources for arranging money and associated financial and legal challenges Identify different types of customers PC17. Identify customer needs and address them appropriately Follow appropriate hygiene and grooming standards Getting ready for apprenticeship & Jobs Create a basic biodata Search for suitable jobs and apply Identify and register apprenticeship opportunities as per requirement	safely <ul style="list-style-type: none">• Use internet and social media platforms securely and safely Entrepreneurship• Identify and assess opportunities for potential business• Identify sources for arranging money and associated financial and legal challenges Identify different types of customers PC17. Identify customer needs and address them appropriately• Follow appropriate hygiene and grooming standards• Getting ready for apprenticeship & Jobs• Create a basic biodata• Search for suitable jobs and apply• Identify and register apprenticeship opportunities as per requirement
Classroom Aids:	
<ul style="list-style-type: none">• Black/White Board, Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook.	
Tools, Equipment and Other Requirements	
<ul style="list-style-type: none">• Laptop/computer, internet, mobile	

On The Job Training Plan : Traffic Safety Marshal

SSD/N0901 V1.0 - Traffic movement & control at worksite : 10 Hours
Key Learning Outcomes
<ul style="list-style-type: none">• Plan traffic movement plan at worksite• Plan traffic diversion and clearing route



<ul style="list-style-type: none">• Carry out briefing to drivers & safety protocols• Study record being maintained for traffic at workplace
SSD/N0902 V 1.0- Basic Road safety regulations, Health & Safety : 10 Hours
Key Learning Outcomes
<ul style="list-style-type: none">• Carry out safety measures to minimize any incident or accidents, and emergency drills.• Use personal safety equipment.• List hazards at worksite, plan first aid support• Plan safe disposal of waste materials.• Plan personal safety, hygiene, and habits to maintain safe & good health.• Carryout safety training.
SSD/N0903 V1.0 - Traffic management at entry & exit at work site : 10 Hours
Key Learning Outcomes
<ul style="list-style-type: none">• Manage traffic & pedestrian management at entry and exits.• Manage traffic at parking inside the workplace.• Understand & explain traffic route marking & management
Total Duration of OJT – 30 Hours (1 weeks)

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Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/12 th Pass	Any domain	5	Safety Domain	0	-	
Graduate in any discipline / Diploma in Engineering	Civil, Mechanical, Manufacturing, Mining, Production, Industrial, Chemical, Safety, Petroleum Engineering, Mathematics, Physics degree and others	2	Safety Domain	0	-	
M. Tech/ B. Tech	Civil, Mechanical, Manufacturing, Mining, Production, Industrial, Chemical, Safety, Petroleum Engineering and others.	1	Safety Domain	0	-	

Trainer Certification	
Domain Certification	Platform Certification
Certified as Trainer for the Job Role "SSD/Q0901 v1.0 : Traffic Safety Marshal" or higher qualification as per career progression by SSDF. The minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: "Trainer (VET and Skills)," mapped to the Qualification Pack: "MEP/Q2601 V2.0". The minimum accepted score is 80%.



Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/12 th Pass	Any domain	5	Safety Domain	0	-	
Graduate in any discipline / Diploma in Engineering	Civil, Mechanical, Manufacturing, Mining, Production, Industrial, Chemical, Safety, Petroleum Engineering, Mathematics, Physics degree and others	2	Safety Domain	0	-	
M. Tech/ B. Tech	Civil, Mechanical, Manufacturing, Mining, Production, Industrial, Chemical, Safety, Petroleum Engineering and others.	1	Safety Domain	0	-	

Assessor Certification	
Domain Certification	Platform Certification
Certified as assessor for the QP: "SSD/Q0901 v1.0 : "Traffic Safety Marshal" or higher qualification as per career progression. The minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: "Assessor (VET and Skills)", mapped to the Qualification Pack: "MEP/Q2701 V2.0". The minimum accepted score is 80%.



Assessment Strategy

The assessment will be based on the concept of third-party assessments through certified assessors with empanelled Assessment Agencies of NCVET. The certification of each assessor will be done by SSDF through a process of selection, training, assessment & certification through training of the assessor's program.

The assessments will include both formative & summative. The progressive assessments will be through a trainer during the progress of the training. The summative assessments will be carried by the assessor through assessment agencies.

The assessment process will find whether the candidate or professional is competent or not to perform the job as per expected performance criteria. The assessment plan contains the following information:

- a) Assessment elements – Competencies based on performance criteria of each NOS.
- b) Methods of assessment – Written test (online/offline), viva and practical/ field exercises.
- c) Time of assessment – The assessment will be done both formative and summative (post orientation/training) of candidates.
- d) Place i.e., context of the assessment - The assessment will be conducted through theory, viva voce and practical/ field exercises, on simulators and will be both online or offline modes.
- e) The criteria for decision making– It will be based on assessment criteria & guidelines as given the qualification pack.
- f) Questions – The written questions, viva & practical questions will be set to cover all aspects of performance criteria and would have been validated from experts in the subject matter.
- g) Passing criteria & gradings – The passing criteria & gradings will be as per passing criteria given for each NOS and Guidelines for Assessment.



Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood to accomplish or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training Outcome is specified in terms of knowledge, understanding(theory)and skills (practical application).
OJT(M)	On-the-job training(Mandatory);trainees are mandated to complete specified hours of training on site
OJT(R)	On-the-job training(Recommended);trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective, or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome.



Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standard
AB	Awarding Body
AA	Assessment Agency
TP	Training Partner