



Model Curriculum

Qualification Name: Basics of Safety Protocols for Construction Works

Qualification Code: SSD/M0105

Version: 1.0

NSQF Level: 2.5

Model Curriculum Version: 1.0



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Training Parameters

Sector	Construction, Infrastructure, Real Estate and others
Sub-Sector	-
Occupation	Construction Engineering & Management
Country	India
NSQF Level	2.5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/1323.0100
Minimum Educational Qualification and Experience	8th Grade Pass with 1.5 years of relevant experience OR Previous relevant Qualification of NSQF Level 2.0 with 1 year experience
Pre-Requisite License or Training	NA
Minimum Age	14 Years
Last Reviewed On	27-08-2024
Next Review Date	27-08-2027
NSQF Approval Date	27-08-2024
MC Version	1.0
Model Curriculum Creation Date	27-08-2024
Model Curriculum Valid Up to Date	27-08-2027
Model Curriculum Version	1.0
Minimum Duration of the Course	15 hours
Maximum Duration of the Course	15 hours



Program Overview

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

Training Outcomes

At the end of the program, the learner will be able to:

- Adhere to Safety requirements & precautions at construction sites.
- Implement Safety protocols procedures while performing construction activities at construction sites.
- Learn and Understand Use of PPEs
- Implement Health & Environment protocols while performing construction activities
- Ensure Site's gear is kept in good condition and subjected to routine inspections.
- Ensure Workers on a construction site are in sound physical and mental condition
- Prevent any potential back injuries by correctly lifting objects.

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
Module 1: Establish and implement site safety protocols	02:00 Hours	02:00 Hours	00:00 Hours	00:00 Hours	04:00 Hours
Module 2: Conduct Pre-employment medical screenings as part of employee readiness & overall wellbeing assessments	02:00 Hours	02:00 Hours	00:00 Hours	00:00 Hours	04:00 Hours
Module 3: Conduct a regular evaluation of workplace risks and potential safety hazards & provide employees with protective gear	02:00 Hours	1.5:00 Hours	00:00 Hours	00:00 Hours	3.5:00 Hours



Module 4: Perform regular inspections and routine maintenance. Make certain that the appropriate signage is prominently posted throughout the workplace	02:00 Hours	1.5:00 Hours	00:00 Hours	00:00 Hours	3.5:00 Hours
Total Duration	08:00 Hours	07:00 Hours	00:00 Hours	00:00 Hours	15.00 Hours

Module Details

Module 1: Establish and implement site safety protocols.

Terminal Outcomes:

- Demonstrate safety protocols, procedure, safety nets and precautions while working at height.
- Demonstrate safety protocols and procedure while working at elevated platform, going up to elevated platform and getting down from the elevated platform.
- Demonstrate safety protocols, procedure, measures & precautions while working at depth/in excavation.
- Demonstrate safety protocols, procedure, measures & precautions while working as mason, bar bender, shuttering carpenter, scaffolder.

Duration: 02:00	Duration: 02:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Know safety protocols, procedure, safety nets and precautions while working at height. • Know safety protocols and procedure while working at elevated platform, going up to elevated platform and getting down from the elevated platform. • Know safety protocols, procedure, measures & precautions while working at depth/in excavation. • Know safety protocols, procedure, measures & precautions while working as mason, bar bender, shuttering carpenter, scaffolder 	<ul style="list-style-type: none"> • Demonstrate safety protocols, procedure, safety nets and precautions while working at height. • Demonstrate safety protocols and procedure while working at elevated platform, going up to elevated platform and getting down from the elevated platform. • Demonstrate safety protocols, procedure, measures & precautions while working at depth/in excavation. • Demonstrate safety protocols, procedure, measures & precautions while working as mason, bar bender, shuttering carpenter, scaffolder
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	



Tools, Equipment and Other Requirements

Safety Helmet, Full face shield, Leather gloves, Chemical resistant gloves, Electrically insulated latex gloves, Reflective jackets, Ear muffs, Safety gumboots, Safety shoes, Safety belt, Safety harness, High visibility jackets, Fall arrestor, Fire extinguisher, Measuring Tape, Fire Prevention kit, First Aid box, Safety Cone, Caution Boards, Safety Sign Boards, Caution Tape.

Module 2: Conduct Pre-employment medical screenings as part of employee readiness & overall well-being assessments.

Terminal Outcomes:

- Mandate premedical screening test for physically taxing jobs.
- Hold periodic training sessions to speed regarding changing safety policies, while also reinforcing existing policies.
- Develop a response to each risk based on its severity & impact and mark locations of emergency kits.
- Identify & demonstrate health & hygiene challenges at construction site and measures and precautions against them.
- Initiate regular employee surveys for an insightful glimpse into the overall morale and wellbeing of the workforce!
- Promote work-life balance through flexible work hours, remote working options, and promoting healthy boundaries between professional and personal life.

Duration: 02:00	Duration: 02:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Analyse required premedical screening test for different physically taxing jobs. ● Hold periodic training sessions, reminding employees of common risks they face. ● Mark locations of emergency equipment. Brief employees on the best practices to reduce those risks. ● Identify & demonstrate health & hygiene challenges at construction sites and measures and precautions against them. ● Initiate regular employee surveys for an insightful glimpse into the overall morale and wellbeing of the workforce. ● Promote work-life balance through flexible work hours, remote working options, and promoting healthy boundaries between professional and personal life. 	<ul style="list-style-type: none"> ● Perform required premedical screening test for Vision, Hearing, Lung capacity, Pull and grip strength, and Cardiac stress. ● Hold periodic training sessions for proper lifting techniques, procedures for handling hazardous materials, and best policies for accident reporting. ● Mark locations of emergency equipment, including first aid kits Brief employees on the best practices to reduce those risks. ● Identify & demonstrate health & hygiene challenges at construction sites and measures and precautions against them. ● Initiate regular employee surveys for an insightful glimpse into the overall morale and wellbeing of the workforce.



	<ul style="list-style-type: none"> Promote work-life balance through flexible work hours, remote working options, and promoting healthy boundaries between professional and personal life.
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
Safety Helmet, Full face shield, Leather gloves, Chemical resistant gloves, Electrically insulated latex gloves, Reflective jackets, Ear muffs, Safety gumboots, Safety shoes, Safety belt, Safety harness, High visibility jackets, Fall arrestor, Fire extinguisher, Measuring Tape, Fire Prevention kit, First Aid box, Safety Cone, Caution Boards, Safety Sign Boards, Caution Tape.	

Module 3: Conduct a regular evaluation of workplace risks and potential safety hazards & provide employees with protective gear.

Terminal Outcomes:

- Tour facilities and make note of potential risks. Review accident reports from the previous year (or the previous six months).
- Customize the accident prevention plan to make note of any new risks that are found.
- Provide employees with protective gear and train them on their usage.

Duration: 02:00	Duration: 1.5:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> Tour facilities and make note of potential risks. Review accident reports from the previous year (or the previous six months) Customize the accident prevention plan to make note of any new risks that are found. Provide employees with protective gear and train them on their usage 	<ul style="list-style-type: none"> Tour facilities and make note of potential risks. Review accident reports from the previous year (or the previous six months) Customize the accident prevention plan to make note of any new risks that are found. Provide employees with protective gear and train them on their usage
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	



Safety Helmet, Full face shield, Leather gloves, Chemical resistant gloves, Electrically insulated latex gloves, Reflective jackets, Ear muffs, Safety gumboots, Safety shoes, Safety belt, Safety harness, High visibility jackets, Fall arrestor, Fire extinguisher, Measuring Tape, Fire Prevention kit, First Aid box, Safety Cone, Caution Boards, Safety Sign Boards, Caution Tape.

Module 4: Perform regular inspections and routine maintenance. Make certain that the appropriate signage is prominently posted throughout the workplace.

Terminal Outcomes:

- Install Safety signage, work permit system, SOPs, Safe work method statements, MSDS etc.
- Keep the workplace free of clutter, spills, loose rugs, and loose wiring, all of which can be tripping hazards.
- Ensure clear illumination in work areas, along footpaths, at entrances and exits, and in parking areas.
- Perform regular inspections and routine maintenance to help ensure all equipment is running smoothly and safely.

Duration: 02:00	Duration: 1.5:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Install Safety signage, work permit system, SOPs, Safe work method statements, MSDS etc. ● Keep the workplace free of clutter, spills, loose rugs, and loose wiring, all of which can be tripping hazards. ● Ensure clear illumination in work areas, along footpaths, at entrances and exits, and in parking areas. ● Perform regular inspections and routine maintenance to help ensure all equipment is running smoothly and safely. 	<ul style="list-style-type: none"> ● Install Safety signage, work permit system, SOPs, Safe work method statements, MSDS etc. ● Keep the workplace free of clutter, spills, loose rugs, and loose wiring, all of which can be tripping hazards. ● Ensure clear illumination in work areas, along footpaths, at entrances and exits, and in parking areas. ● Perform regular inspections and routine maintenance to help ensure all equipment is running smoothly and safely.
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Safety Helmet, Full face shield, Leather gloves, Chemical resistant gloves, Electrically insulated latex gloves, Reflective jackets, Ear muffs, Safety gumboots, Safety shoes, Safety belt, Safety harness, High visibility jackets, Fall arrestor, Fire extinguisher, Measuring Tape, Fire Prevention kit, First Aid box, Safety Cone, Caution Boards, Safety Sign Boards, Caution Tape.	





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	Relevant Domain	0	-	
Graduate in any discipline / Diploma in Engineering	Any domain	2	Relevant Domain	0	-	
M. Tech/ B. Tech	Any domain	1	Relevant Domain	0	-	

Trainer Certification	
Domain Certification	Platform Certification
Certified as Trainer for the Job Role: “SSD/M0105 v1.0 : Basics of Safety Protocols for Construction Works” or higher qualification as per career progression by SSDF. The minimum accepted score is 80%.	Recommended that the Trainer 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	Relevant Domain	0	-	ITI/12 th Pass
Graduate in any discipline / Diploma in Engineering	Any domain	2	Relevant Domain	0	-	Graduate in any discipline / Diploma in Engineering
M. Tech/ B. Tech	Any domain	1	Relevant Domain	0	-	M. Tech/ B. Tech

Assessor Certification	
Domain Certification	Platform Certification
Certified as Assessor for the Job Role: “SSD/M0105 v1.0 : Basics of Safety Protocols for Construction Works” 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: “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:

1. Assessment elements – Competencies based on performance criteria.
2. Methods of assessment – Written test (online/offline), viva and practical/ field exercises.
3. Time of assessment – The assessment will be done both formative and summative (post orientation/training) of candidates.
4. 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 and offline modes.
5. The criteria for decision making– It will be based on assessment criteria & guidelines as given the qualification pack.
6. 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.
7. 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
MC	Micro-Credential
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standard
AB	Awarding Body
AA	Assessment Agency
TP	Training Partner

