



Draft: Model Curriculum

NAME: BASICS OF EMERGENCY RESPONSE AND EVACUATION PREPAREDNESS

MICROCREDENTIAL CODE: SSD/MCr-0107

MICROCREDENTIAL VERSION: 1.0

NSQF LEVEL:3

MODEL CURRICULUM VERSION-1.0



Table of Contents

Training Parameters.....	3
Program Overview.....	5
Module Details.....	6
Trainer Requirements.....	10
Assessor Requirements.....	11
Assessment Strategy.....	12
Glossary.....	13
Acronyms and Abbreviations.....	14



Training Parameter

Sector	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Construction, Chemicals & Petrochemicals and others.
Sub Sector	-
Occupation	Occupational Safety Health & Environment (OSHE) Engineering & Management
Country	India
NSQF Level	3
Minimum Educational Qualification and Experience	10th grade pass or equivalent with 3 years of relevant experience OR Previous qualification of NSQF level 2.5 + 1.5 year of relevant experience
Pre-Requisite License or Training	NA
Minimum Age	18 Years
Last Reviewed On	08-05-2025
Next Review Date	08-05-2028
NSQC Approval Date	08-05-2025
MC Version	1.0
Model Curriculum Creation Date	08-05-2025
Model Curriculum Valid Up to Date	08-05-2028



Model Curriculum Version	1.0
Minimum Duration of the Course	7.5 hours
Maximum Duration of the Course	7.5 hours

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: -

- Identify various emergency situations scenarios and devising strategies to minimize such occurrence.
- Assess Immediate impacts of emergency situations & putting up measures to mitigate these impacts.
- Highlight the importance of adhering to local and international safety standards in emergency response planning.
- Initiative-taking Emergency Response on effective emergency protocols, include evacuation procedures, first aid techniques, coordinate with teams and utilization of modern technology.

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: Emergency Preparedness and Planning	02:00 Hours	02:00 Hours	00:00 Hours	00:00 Hours	04:00 Hours
Module 2: Emergency Response and Evacuation Measures	02:00 Hours	1.5:00 Hours	00:00 Hours	00:00 Hours	3.5:00 Hours
Total Duration	04:00 Hours	3.5:00 Hours	00:00 Hours	00:00 Hours	7.5:00 Hours

Module Details

Module 1: Emergency Preparedness and Planning

Terminal Outcomes:

- Recognize and classify emergency situations, considering factors such as their characteristics, seriousness, and immediate potential impact.
- Assess the potential outcomes of emergencies, with a focus on injury, damage, and effects.
- Understand the specific risks associated with different industries and modify emergency response plans accordingly for sectors such as construction, manufacturing.

Duration: 02:00 Hours	Duration: 02:00 Hours
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none">• Grasping the fundamental principles of emergency preparedness, including the importance of planning and readiness.• Learning how to create comprehensive emergency plans that include evacuation procedures, communication strategies, and resource management.• Developing strategies for effective communication during an emergency, including internal and external communication channels.• Identifying and managing essential resources needed for emergency response, including personnel, equipment, and supplies.• Designing and implementing training programs to prepare individuals and teams for emergency situations.• Conducting tests of emergency plans to ensure they are effective and feasible.• Familiarizing with legal requirements and industry standards related to emergency preparedness and planning.• Using feedback from drills, tests, and actual incidents to continuously improve emergency preparedness plans.	<ul style="list-style-type: none">• Gaining experience in drafting and implementing detailed emergency plans tailored to specific situations or organizations.• Organizing and participating in emergency drills and exercises to evaluate and refine response strategies.• Practicing the organization, allocation, and maintenance of emergency resources, including first aid kits, safety gear, and communication tools.• Developing practical skills for clear and effective communication during a crisis, including messaging, information dissemination, and public relations.• Gaining experience in delivering training programs to staff or community members on emergency preparedness and response.• Practicing distinct roles within the ICS, such as Incident Commander, Operations Section Chief, and Logistics Coordinator.• Practicing the documentation of emergency incidents, including decisions made, actions taken, and outcomes achieved.• Practicing the testing of emergency plans to ensure they are practical and effective in real-world scenarios.

<ul style="list-style-type: none"> • Identify the critical information that must be shared: location, nature of emergency, number of people affected, special risks (fire, chemicals, etc.). • Understand the standard protocols for contacting emergency services (police, fire, ambulance). • Interpret emergency signage, alarm systems, and communication protocols. 	<ul style="list-style-type: none"> • Demonstrate maintaining calmness and following dispatcher instructions in a mock drill. • Role-play scenarios requiring clear, accurate reporting of an incident. • Demonstrate correct implementation of emergency drills for each type of emergency listed: • Fire evacuation drill including alarm activation, fire extinguisher use, and safe exit. • Earthquake drill involving "Drop, Cover, and Hold On" method and evacuation. • HAZMAT drill with PPE usage, containment procedures, and decontamination zones. • Industrial accident drills simulating equipment failure or worker injury response. • Enemy threat drill
Classroom Aids	
Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser	
Tools, Equipment and Other Requirements	
Safety goggles, Full face shield, Leather gloves, Puncture resistant gloves, Chemical resistant gloves, Electrically insulated latex gloves, Safety helmets/hard hats, Ear plugs, Safety shoes, Safety gumboots, High visibility jackets, N95 masks, Double filter half face mask, Double filter full face mask, SCBA – Self-contained breathing apparatus, Safety harness, Lanyard, Fall arrestor, CO2 Fire extinguisher, Dry Chemical Powder Fire extinguisher, Fire hydrant system, Multiple gas detector, TDS Meter.	

Module 2: Emergency Response and Evacuation Measures

Terminal Outcomes:

- Execute emergency response procedures efficiently, placing emphasis on prompt evacuation, correct utilization of emergency equipment, and effective team coordination.
- Analyse responses following emergencies to enhance protocols, with a particular focus on improving efficiency, communication effectiveness, and overall capability to respond.

- Proficiency in evaluating and ensuring the adequacy, accessibility, and proper utilization of appropriate personal protective equipment (PPE) during emergency.
- Ability to adapt emergency response strategies based on evolving circumstances, demonstrating flexibility and agility in addressing various emergency scenarios.
- Review audits of emergency response plans, incorporating lessons learned to continuously enhance and optimize emergency protocol.

Duration: 02:00 Hours	Duration: 1.5:00 Hours
Theory–Key Learning Outcomes	Practical–Key Learning Outcomes
<ul style="list-style-type: none"> • Understanding the principles and frameworks for effective emergency response, including Incident Command Systems (ICS) and coordination strategies. • Grasping the roles and responsibilities of various positions within the emergency management team, such as Incident Commander and Section Chiefs. • Learning how to manage and disseminate information effectively during an emergency to ensure all stakeholders are informed. • Gaining knowledge on how to allocate and manage resources effectively during an emergency, including personnel, equipment, and supplies. • Developing the ability to make informed and timely decisions in high-pressure situations. • Learning how to conduct a thorough review of the response to assess effectiveness and identify areas for improvement. • Learning how to document all aspects of the emergency response, including actions taken, decisions made, and resource usage. • Understanding how to extract lessons from the response to improve future preparedness and response efforts. • Understand the unique needs and vulnerabilities of people with disabilities, elderly persons, and children in emergency situations. 	<ul style="list-style-type: none"> • Practicing the application of emergency response plans in real or simulated scenarios, including activating, and managing response procedures. • Engaging in role-playing exercises to practice the functions and responsibilities of different ICS roles, such as Incident Commander, Operations Chief, and Logistics Coordinator. • Participating in drills to practice communication strategies, including how to issue clear and effective messages during an emergency. • Gaining firsthand experience in deploying and managing resources, including personnel, equipment, and supplies during an emergency. • Engaging in simulations that evaluate decision-making skills under pressure, including prioritizing tasks and managing competing demands. • Practicing the documentation of emergency response activities, including actions taken, resource use, and communications. • Participating in or leading debriefing sessions to review the response, gather feedback, and assess performance. • Practicing how to revise and update emergency response plans based on evaluation findings and feedback from exercises or actual incidents. • Demonstrate safe techniques for assisting individuals with mobility aids (wheelchairs, walkers) during evacuation drills. • Practice communication strategies with individuals who are hearing or visually impaired.

- Identify appropriate assistance methods for various disabilities (mobility, hearing, vision, cognitive impairments)

Classroom Aids

Charts, Models, Video presentation, Flip Chart, Whiteboard/Smart Board, Marker, Board eraser

Tools, Equipment and Other Requirements

Safety goggles, Full face shield, Leather gloves, Puncture resistant gloves, Chemical resistant gloves, Electrically insulated latex gloves, Safety helmets/hard hats, Ear plugs, Safety shoes, Safety gumboots, High visibility jackets, N95 masks, Double filter half face mask, Double filter full face mask, SCBA – Self-contained breathing apparatus, Safety harness, Lanyard, Fall arrestor, CO2 Fire extinguisher, Dry Chemical Powder Fire extinguisher, Fire hydrant system, Multiple gas detector, TDS Meter.



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	3	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/M0107 v1.0 : BASICS OF EMERGENCY RESPONSE AND EVACUATION PREPAREDNESS” 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	-	
Graduate in any discipline / Diploma in Engineering	Any domain	3	Relevant Domain	0	-	
M. Tech/ B. Tech	Any domain	1	Relevant Domain	0	-	

Assessor Certification

Domain Certification	Platform Certification
Certified as Assessor for the Job Role: “SSD/M0107 v1.0 : BASICS OF EMERGENCY RESPONSE AND EVACUATION PREPAREDNESS” 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 empaneled 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 assessor’s program.

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

The assessment process will determine 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:

- Assessment elements – Competencies based on performance criteria of each NOS.
- Methods of assessment – Written test (online/offline), viva and practical/ field exercises.
- Time of assessment – The assessment will be done both formative and summative (post orientation/training) of candidates.
- 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.
- The criteria for decision making– It will be based on assessment criteria & guidelines as given in the qualification pack.
- Questions – The written questions, viva & practical questions will be set to cover all aspect of performance criteria and would have been validated from experts in the subject matter.

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 psycho motor 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 helps 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