







Model Curriculum

Helper Electrician (NSQF Level – 2)

SECTOR: CONSTRUCTION

SUB-SECTOR: REAL ESTATE AND INFRASTRUCTURE

CONSTRUCTION

OCCUPATION: CONSTRUCTION ELECTRICAL WORKS

REF. ID: CON/Q0601, VERSION 1.1

NSQF LEVEL: 2















CURRICULUM COMPLIANCE TO QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

CONSTRUCTION SECTOR SKILLS COUNCIL

forthe

MODEL CURRICULUM

Complying to National Occupational Standards of Job Role/ Qualification Pack: 'Helper Electrician' QP No. 'CON/ Q o601 NSQF Level 2'

Date of Issuance:

December 31st, 2015

Valid up to:

May 23rd, 2017

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

Quesa

Authorised Signatory (Construction Skill Development Council)









TABLE OF CONTENTS

1.	Curriculum	01
2.	Trainer Prerequisites	09
2	Annevure: Assessment Criteria	10









Helper Electrician

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "Helper Electrician", in the "construction" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Helper Electrician		
Qualification Pack Name & Reference ID.	Helper Electrician CON/Q0601		
Version No.	1.1	Version Update Date	23-05 - 2015
Pre-requisites to Training	Minimum qualification -	- 10th Class	
Training Outcomes	 Identify and hand relevant to LV elematerials to execute Carry out wall chasto standard procedure and practice Carry out manual standard procedure using appropriate to Erect and dismantito the standard prappropriate tools and Work effectively in Introduction to tear followed at construct Work according to 	ctrical works - Identify, shift tasks related to electrical work ing and external threading our for wall chasing and conducted for wall chasing and conducted for wall excavation and except to the second for the secon	ring devices and materials ft and use tools, tackles and ks on MS conduit – Introduction uit fixing for concealed wiring on site – Introduction to the tavation of trench the same by -meter height – Introduction lismantling of scaffold using









This course encompasses 6 out of 6 National Occupational Standards (NOS) of "Helper Electrician" Qualification Pack issued by "Construction Skill Development Council of India".

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	Introduction to Electrical Trade Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code	 Brief about electrical trade in construction sector Job opportunities for a Helper electrician in construction sector Role of a Helper electrician Brief about training session and training delivery plan Basic knowledge of Unit of measurement and their conversion Basic knowledge of arithmetic calculation 	infrastructural requirements 1. classroom having sitting capacity of 30 trainees 2. blackboard 3. LCD monitor 32" 4. Laptop
2	Identify and handle different tools, measuring devices and materials relevant to LV electrical works Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 40:00 Corresponding NOS Code CON/N0606	 Theory: - Introduction to hand tools and tackles used for electrical works and their function Introduction to measuring instruments and their function Brief introduction to basic electrical measuring devices and their use Brief introduction to common power tools used in electrical works and their respective components Brief introduction to common electrical materials and fixtures Brief introduction to common equipment's used at construction site Introduction to standard storing norms and handling norms related to electrical materials/ fixtures Introduction to the materials which are good conductor and bad conductor of electricity with example Demonstration/ practical: - Identification and demonstration of hand tools Identification and demonstration of measuring instruments Practice handling and storing of electrical materials/ fixtures at workplace 	Hand tools: - 1. screw drivers 2. wire cutters 3. wire strippers 4. pliers 5. hammers 6. hacksaws 7. chisels 8. spanners (set) 9. wrenches Measuring Instruments 10. measuring tape 11. spirit level 12. plumb-bob 13. mason's line Measuring Devices 14. multi-meter 15. voltage tester Power Tools 16. drilling machine 17. hand cutting machine 17. hand cutting machine 18. cables 19. wires 20. sockets 21. switches 22. lights 23. conduits (flexible and rigid) 24. raceways









Sr. No.	Module	Key Learning Outcomes	Equipment Required
31.110.	THOUGH.	ney Ecuming Outcomes	Equipment 25. vibrators 26. bar cutting machine 27. bar bending machine 28. water pumps infrastructural requirements 29. classroom having sitting capacity of 30 trainees 30. blackboard 31. LCD monitor 32" 32. Laptop
3	Carry out wall chasing and external threading on MS conduit Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 64:00 Corresponding NOS Code CON/N0607	 Theory: - Brief about electrical wiring methods adopted in electrification of buildings Electrical fixtures used in electrical wiring works Brief about concealed electrical wiring and its use Procedure of measurement and marking Standard method of wall chasing and necessary precautions to be taken during the activity Power tools and hand tools required for wall chasing Common accessories used for fixing of conduits Safety precautions / PPE's used in wall chasing and conduit fixing Systems of Conduit fixing using appropriate accessories Brief about specification of conduits and their use Standard housekeeping practices post wall chasing work Standard procedure of handling and storing of electrical materials required for wiring works How to carry out threading on MS conduits Tools and equipment's used for threading work Demonstration/ practical: - Carry out marking and measurement on wall prior to chasing as per instruction using appropriate marking tools and instruments Chase wall of given depth using appropriate tools 	Hand tools: - 1. wall chasing chisel 2. hammer 3. hacksaw 4. file 5. marking tools 6. table vice 7. Stock and die set 8. Pipe cutter to cut pipes 9. Hand brooms 10. Shovels 11. Screw driver set Measuring Instruments 12. measuring tape 13. spirit level 14. plumb-bob 15. mason's line Power tools 16. cutting machine 17. drilling machine 17. drilling machine 18. power source Materials 19. rigid conduits 20. flexible conduit 21. clamps for conduits 22. screws









Sr. No.	Module	Key Learning Outcomes	Equipment Required
		 Fix conduit in the chased wall using appropriate accessories Cutting and edge preparation of MS conduits Threading of MS conduits using die stocks Maintenance/ upkeep of tools and housekeeping at workplace 	PPEs & safety equipment's 23. helmet 24. safety shoes 25. safety belt 26. cotton hand gloves 27. goggles 28. Reflective jackets 29. Safety message boards 30. Fire extinguishers 31. Sand buckets infrastructural requirements 32. classroom having sitting capacity of 30 trainees 33. blackboard 34. LCD monitor 32" 35. Laptop
4	Carry out manual earthwork at construction site Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 64:00 Corresponding NOS Code CON/N0104	 Identification of tools required for cutting earth and cleaning excavated pit Function of different tools used for manual excavation Standard procedure of marking and tools used for marking Standard procedure of excavation maintaining required slope, length, width and depth Types of hand operated compaction Equipment - Rammers, Vibratory Plates, handrollers and their application. Cleaning and preparatory works to be carried out prior to excavation work Standard work method to be adopted for backfilling and compaction of earth using hand operated compactors Carry out cleaning of an area to be excavated Carry out marking of layout of excavation as per instruction using appropriate hand tools and materials Excavate a pit/ trench of desired depth/ slope, length and width 	Hand Tools & materials 1. trowel 2. pointing Trowel 3. Shovel 4. mortar Pan 5. spade 6. pick axe 7. Gl bucket 5L capacity 8. wheel Barrow 9. lime powder 10. wooden pegs 11. hammer 12. hard broom 13. source of water 14. ladder Measuring Instruments 15. measuring tape 16. mason's line Equipment 17. hand roller 18. plate vibrator 19. power source









Sr. No.	Module	Key Learning Outcomes	Equipment Required
31.110.	Module	 Clean the excavated pit of loose soil using appropriate hand tools Backfill the excavated pit by forming layer of specified depth up to desired level by earth Grade/ level the surface of backfilled earth by spreading using appropriate hand tools Carry out compaction by sprinkling water on the backfilled earth and using hand operated compactors 	PPEs & safety equipment's 20. helmet 21. safety shoes 22. cotton hand gloves 23. goggles 24. Reflective jackets 25. Safety message boards infrastructural requirements 26. classroom having sitting capacity of 30 trainees 27. blackboard 28. LCD monitor 32" 29. laptop
5	Erect and dismantle temporary scaffold of 3.6 meter height Theory Duration (hh:mm) 16:00 Practical Duration (hh:mm) 64:00 Corresponding NOS Code CON/N101	 Theory: - What is scaffolding and its purpose of its erection Common materials and tools used for erection of scaffolding such as pipe, cup lock (vertical and ledgers), H-frames Characteristics of ideal base of scaffolding and its preparation Visual checks to be carried out on the scaffolding components to ascertain their usability Different components of a temporary scaffolding such as base, toe board, guard rails, platform, walkways, ladder etc., their function and placing Spacing/ height to be provided among different components of a temporary scaffold Safety measures to be followed while tightening, fixing/ assembling different part of scaffold together Function of different hand tools like hammer, spanner, pulleys, hooks, ropes etc. used for erection/ dismantling of scaffolds. Use of different scaffolding accessories like different kind of clamps, washers, props, bracings and other supporting members 	Hand tools 1. hammer 2. spanner (set) 3. wrench 4. pulley 5. rope 6. nuts and bolts Measuring Instruments 7. measuring tape 8. spirit level 9. plumb-bob 10. mason's line Materials 11. Cup-lock scaffolding components (set) 12. 40 NB pipes 13. swivel coupler 14. fixed clamp 15. steel walers 16. steel walkways 17. aluminium/ Gl ladder 18. safety net









Sr. No.	Module	Key Learning Outcomes	Equipment Required
		Standard method of erecting & dismantling 3.6	equipment's
		m temporary scaffold.	19. helmet
		 Material handling and shifting methods while 	20. safety shoes
		scaffolding erection/ dismantling is under	21. safety belt
		process	22. cotton hand gloves
		 Standard safety procedure while working at 	23. goggles
		height.	24. Reflective jackets
		• Checks to be done on completion of erection of	25. Safety message
		scaffolds, such as verticality check, stability	boards
		check	Sources
		Demonstration/ practical: -	<u>infrastructural</u>
		Sort and shift scaffolding material from stock	<u>requirements</u>
		yard to space of erection	26. classroom having
		 Clean the area of the scaffolding and prepare 	sitting capacity of
		the base	30 trainees
		Erect scaffolds of 3.6 Mtr. height using pipes	27. blackboard
		and cup locks using appropriate hand tools	28. LCD monitor 32"
		 Use clamp and other supporting members to 	29. laptop
		ensure stability and verticality of the scaffolds	
		Place different components of scaffolds such as	
		base plate, vertical/ horizontal members, toe	
		boards, guard rails, platforms/ walkways, ladder	
		etc. as per standard practice	
		Use PPEs as per necessity of the task	
		Dismantle the whole scaffold and stack their	
		components as per standard practice	
6	Work effectively in a team	Theory: -	<u>infrastructural</u>
	to deliver desired results	Concept of effective verbal communication and	requirements
	at the workplace	reporting procedure to be undertaken at	Classroom having sitting capacity of
	Theory Duration	workplace	30 trainees
	(hh:mm)	Concept of team working and coordination to	2. Blackboard
	04:00	be maintained within the team	3. LCD monitor 32"
		 How to respond to the instructions at 	4. Laptop
	Practical Duration	workplace	
	(hh:mm)	 Time management and adherence to the 	
	12:00	timeline provided for tasks	
	Corresponding NOS Code	B	
	CON/N8001	Demonstration/ practical: -	
		The skills will be developed and practiced while corning out following trade related activities in	
		carrying out following trade related activities in	
		a repetitive predictable and familiar working	
		condition	
		Exhibit adherence to timelines and safety	
		practices while performing wall chasing,	
		erecting scaffolds, carrying out earthwork	
		 Communicate clearly within team and with 	









Sr. No.	Module	Key Learning Outcomes	Equipment Required
7	Work according to personal health, safety	seniors Seek permissions prior to starting any activity Report to seniors or concerned authorities on observing unsafe act, unsafe condition or violation of safety norms Explain effect of good housekeeping practices and upkeep of tools Theory: - Common types of hazards involved in	PPEs & safety equipment's
	and environment protocol at construction site Theory Duration (hh:mm) 08:00 Practical Duration (hh:mm) 30:00 Corresponding NOS Code CON/N9001	 construction sites Types of hazards involved in electrical works Safe working methods as per standard norms and actions to be taken under emergency situations Identification of unsafe act and unsafe condition and how to report the same Basic concept of: - First Aid process Use of fire extinguisher Classification of fires and fire extinguisher Safety drills and its purpose Types and use of PPEs required for wall chasing, conduit threading, earthwork and erection of scaffolds Safe working practices related to activities described in CON/N606, N607, N0104 and N0101 Standard procedure of handling, storing and stacking material What is safe disposal of waste depending upon type of waste Basic ergonomic principles to be followed while carrying out task for CON/N606, N607, N0104 and N0101 Demonstration/ Practical: - Select PPEs and use them appropriately as per working need of activities described at CON /N606, N607, N0104 and N0101 Practice handling, storing, stacking and shifting of material, tools and equipment's Demonstration of locations, situations/circumstances, malpractices which can be hazardous for electrical works Describe use of fire extinguisher and standard practice of storing & stacking firefighting 	 helmet safety shoes safety belt cotton rubber gloves ear plugs reflective jackets safety message board displaying Do's and Don'ts at construction sites Fire extinguishers Sand buckets classroom having sitting capacity of 30 trainees Blackboard LCD monitor 32" Laptop









Sr. No.	Module	Key Learning Outcomes	Equipment Required
		equipment's/ materials at work locations	
		Describe disposal of waste materials as per their	
		nature and effects on weather	
	Total Duration	Unique Equipment Required:	
	Theory Duration 76Hrs. Practical Duration 274Hrs.	screw drivers (set), wire cutters, wire strippers, plie chisels, spanners (set), wrenches, wall chasing chi table vice, stock and die set, pipe cutter to cut pipes trowel, pointing Trowel, mortar Pan, spade, pick axe wheel Barrow, pulley, rope, measuring tape, spirit lev line, multi-meter, neon (voltage) tester, drilling machine, power source, source of water, cables, v lights, conduits (flexible and rigid), raceways, scre powder, wooden pegs, helmet, safety shoes, safety be goggles, reflective jackets, Safety message boards, buckets, message board displaying Do's and Don's Cup-lock scaffolding components (set), 40 NB pipe clamp, steel walers, steel walkways, aluminium/vibrators, bar cutting machine, bar bending machineler, plate vibrator, classroom having sitting care.	sel, file, marking tools, s, hard brooms, shovels, e, Gl bucket 5L capacity, vel, plumb-bob, mason's machine, hand cutting vires, sockets, switches, ews, nuts & bolts, lime belt, cotton hand gloves, fire extinguishers, sand ts at construction sites, es, swivel coupler, fixed Gl ladder, safety net, ne, water pumps, hand
		blackboard, LCD monitor 32", Laptop	

Grand Total Course Duration: 300 Hours 00 Minutes

(This syllabus/ curriculum has been approved by Construction Skill Development Council of India)









Trainer Prerequisites for Job role: "Helper Electrician" mapped to Qualification Pack: "CON/Q0601"

Sr. No.	Area	Details	
1	Job Description	To provide training to the trainees aspirant to become an Helper Electrician to support civil construction activities in construction sector	
2	Personal Attributes	Person in this job role should have sound practical and theoretical knowledge about electrical works needed to support construction activities with good interpersonal skill, communication skill of explaining and demonstrating domain subject matters. Individual should have hand on experience in field of electrical works and be familiar to the environment of construction project sites. Additionally he/ she should have observation skills to find out specific need and area of improvement of trainees and awareness of trade safety practices.	
3	Minimum Educational Qualifications	Class 10 th	
4a	Domain Certification	Certified for Job Role: "Construction Electrician - LV" mapped to QP: "CON/N0603". Minimum accepted % as per respective SSC guidelines is 70%.	
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "SSC/Q1402". Minimum accepted % as per respective SSC guidelines is 70%.	
5	Experience	i. Technical Degree holder with minimum Five years of Field & Two years of teaching experience (At least one year each at workers and Engineers level) or, ii. In case of a Diploma Holder Ten years of field & five years of teaching experience (Three years at worker level and two years at Engineers level) having Total experience to 15 yrs. or, iii. In case of specific to trades than should have qualified the Minimum Level- 4 and have Fifteen years of field experience and Three years of Teaching experience or, iv. Graduate or Intermediate should possess at least Level – 4 Certificate and have 12 years of field experience and two years of trade teaching experience or,	









Annexure: Assessment Criteria

Assessment Criteria for Helper Electrician	
Job Role	Helper Electrician
Qualification Pack	CON/Q0601, Version 1.1
Sector Skill Council	Construction

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 knowledge part will be based on knowledge bank of questions created by Assessment Bodies subject to approval by SSC
3	Individual assessment agencies will create unique question papers for knowledge/theory part for assessment of candidates as per assessment criteria given below
4	Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training centre based on assessment criteria.
5	The passing percentage for each QP will be 50%. To pass the Qualification Pack, every trainee should score a minimum of 50% individually in each NOS.
6	The Assessor shall check the final outcome of the practices while evaluating the steps performed to achieve the final outcome
7	The trainee shall be provided with a chance to repeat the test to correct his procedures in case of improper performance, with a deduction of marks for each iteration.
8	After the certain number of iteration as decided by SSC the trainee is marked as fail, scoring zero marks for the procedure for the practical activity.
9	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 within the specified timeframe set by SSC.
10	Minimum duration of Assessment of each QP shall be of 4hrs/trainee.









					Marks Allocation	
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical	
CON/N0606: Identify and handle different tools, measuring devices and	PC1. identify and use different hand tools like screw driver, pliers, wire strippers, voltage testers, insulation tapes, hacksaw and other tools relevant to LV electrical works		10	2	8	
materials relevant to LV electrical works	PC2. identify and use power tools like drill machine, hand cutting machine, hand grinding machine required to carry out LV electrical installation work		10	2	8	
	PC3. use measuring tape, plumb bob, spirit level, line thread and other relevant hand tools for carrying out checks in alignment of works	100	10	2	8	
	PC4. identify common electrical measuring devices like multimeter, earth tester, tong tester and megger required to undertake LV electrical tests/ inspections		10	2	8	
	PC5. identify common construction equipments like steel cutting & bending machine, welding machine, vibrators, pumps, motors, tower cranes, batching plants etc.		5	1	4	
	PC6. identify safety tools and equipments like sand bucket, fire extinguisher, PPEs, barricading, signage, symbols used at construction sites		5	1	4	
	PC7. identify electrical materials and fixtures like wires, cables, conduits, clamps, lights, circuit breakers, switches, sockets, starters and related accessories		10	2	8	
	PC8. check for breakages, cracks, damp, corrosions etc. to electrical materials and fixtures prior to using		5	1	4	
	PC9. shift lights, cables, conduits, cable trays, brackets, DBs, ladders and other relevant materials to the appropriate work locations as per directions		5	1	4	
	PC10. inspect material storage locations for safe condition which include avoiding vicinity of water, fire, direct sunlight, service lines, existing electrical lines, ongoing construction works causing fall of material etc.		5	1	4	
	PC11. store and stack electrical materials at work locations as per instruction or standard practices		10	2	8	
	PC12. provide protective cover, erect barricading, signage around the stacked materials adequately as per instructions		10	2	8	









					Marks Allocation	
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical	
	PC13. carry out housekeeping at work locations before and after completion of work		5	1	4	
		Total	100	20	80	
CON/N0607: Carry out wall	PC1. select, shift, and stack the required hand and power tools at the identified job location		5	1	4	
chasing and external threading on MS conduit	PC2. select, shift and stack electrical materials such as cables, wires, conduits and fixtures required for wall chasing and LV wiring work		5	1	4	
	PC3. carry out measurement and marking on wall surface using appropriate tools as per instruction		5	1	4	
	PC4. carry out checks on tools and materials for their safe working conditions perform required basic maintenance on tools	100	5	1	4	
	PC5. carry out firm cutting on wall surface using wall chasing machine as per marking while maintaining uniform depth		5	1	4	
	PC6. finish the wall chasing work using hand tools as per standard practice maintaining the required dimension		5	1	4	
	PC7. use appropriate PPEs while carrying out chasing activity		5	1	4	
	PC8. measure mark and cut, cables and conduits as per instruction using appropriate hand and power tools		5	1	4	
	PC9. bend and join conduits as per requirement using appropriate hand and power tools		5	1	4	
	PC10. assist in placing conduits and cables/ wires trough the same for permanent LV wiring works		5	1	4	
	PC11. clean the work locations after completion of work and dispose debris appropriate location		5	1	4	
	PC12. assist senior in all relevant cable laying works as per instruction		5	1	4	
	PC13. carry out Measurement & marking on MS conduits		5	1	4	
	PC14. hold the conduit in pipe vice efficiently		5	1	4	
	PC15. cut the conduit at marking point and do the edge finishing using appropriate tools		10	2	8	
	PC16. fix die cutter in die stock as per instructions		5	1	4	









					Marks Allocation	
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical	
	PC17. use die stock and lubricant as per requirement		5	1	4	
	PC18. follow trade safety as applicable while perform threading activity		5	1	4	
	PC19. maintain standard housekeeping practice at the workplace		5	1	4	
		Total	100	20	80	
CON/N0104: Carry out manual earthwork at	PC1. remove unwanted materials, organic substances, manually removable objects from the worksite using appropriate hand tools as per the instructions		5	1	4	
construction sites	PC2. clean earth surface using proper hand tools to make it ready for carrying out marking activity		5	1	4	
	PC3. carry out marking for excavation using lime, wooden pegs, ropes or by any other suitable materials as per the instructions	100	5	1	4	
	PC4. shift and stack fencing/ barricading materials, safety signage, ladders, ropes, earth cutting and shifting tools at specified locations as per instruction		5	1	4	
	PC5. dig earth to a desired depth using appropriate tools as per instruction		10	2	8	
	PC6. maintain desired slope of earth during digging activity		10	2	8	
	PC7. dispose earth from the excavated pit by using suitable tools and equipments such as spade , wheel barrows, pans as per instruction		5	1	4	
	PC8. check for loose material, soil lumps, pebbles on achieving the desired earth level		5	1	4	
	PC9. carry out surface dressing work by disposing loose material, gravels, plant roots, sludge, muck or debris as per requirement to the appropriate locations		5	1	4	
	PC10. carry out compaction of the base layer of the pit by ramming or operating hand/ plate compactor as per instruction		10	2	8	
	PC11. shift and place earth at desired location by using right tools as per instruction		10	2	8	
	PC12. sort gravels or oversized aggregates from soil to be used for backfilling as per instruction		5	1	4	
	PC13. place and spread earth maintaining uniform layers within tolerance limit of thickness		5	1	4	









				Marks Allocation		
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical	
	PC14. sprinkle water as uniformly over the layer to be compacted as and when required as per direction		5	1	4	
	PC15. carry out ramming or operate hand/ plate compacting machines over the soil layer as per direction		5	1	4	
	PC16. carry out re-filling and compaction of excavated trenches, pits surrounding the structures or at necessary location by soil under supervision		5	1	4	
	Total		100	20	80	
CON/N0101: Erect and	PC1. level area where scaffold need to be erected and check for ground compactness if required		10	2	8	
dismantle temporary scaffold of 3.6 m	PC2. shift and stack required materials, components, tools and tackles at the instructed location	100	10	2	8	
height	PC3. wear and use required safety gadgets and follow trade safety		10	2	8	
	PC4. place base plates and sole boards on the ground as per markings and instructions		10	2	8	
	PC5. use proper components and follow standard procedure for 3.6 m temporary scaffold erection		10	2	8	
	PC6. check verticality of scaffold at first level of erection and correct (if required) before moving to the next level		10	2	8	
	PC7. check for rigidity, stability and support of erected scaffold		5	1	4	
	PC8. fix walk-boards, guard rails, toe-boards and other components on working platform		10	2	8	
	PC9. follow standard procedure for dismantling of 3.6 m temporary scaffold		10	2	8	
	PC10. remove guard rails, toe boards, walk boards and other components sequentially		5	1	4	
	PC11. clean and stack all components properly after dismantling		5	1	4	
	PC12. maintain tidiness at work location		5	1	4	
		Total	100	20	80	
CON/N8001: Work effectively in a team to	PC1. pass on work related information/ requirement clearly to the team members	100	10	2	8	
in a team to deliver desired	PC2. inform co-workers and superiors about any kind of deviations from work	100	5	1	4	









				Marks Allocation	
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical
results at the workplace	PC3. address the problems effectively and report if required to immediate supervisor appropriately	•	5	1	4
	PC4. receive instructions clearly from superiors and respond effectively on the same		5	1	4
	PC5. communicate to team members/subordinates for appropriate work technique and method		5	1	4
	PC6. seek clarification and advice as per the requirement and applicability		10	2	8
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		30	6	24
	PC8. work together with co-workers in a synchronized manner		30	6	24
		Total	100	20	80
CON/N9001: Work according	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authorities		5	1	4
to personal health, safety and	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		5	1	4
environment protocol at construction site	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable		10	2	8
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site		5	1	4
	PC5. identify near miss , unsafe condition and unsafe act		5	1	4
	PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including: • Head Protection (Helmets) • Ear protection • Fall Protection • Foot Protection • Face and Eye Protection • Hand and Body Protection • Respiratory Protection (if required)	100	10	2	8
	PC7. handle all required tools, tackles , materials & equipment safely		5	1	4
	PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines		5	1	4
	PC9. install and apply properly all safety equipment as instructed		15	3	12









				Marks Allocation	
ASSESSMENT OUTCOME (NOS CODE AND DESCRIPTION)	Assessment Criteria for outcomes	Total Mark	Out Of	Theory	Skills Practical
	PC10. follow safety protocol and practices as laid down by site EHS department		15	3	12
	PC11. collect and deposit construction waste into identified containers before disposal, separate containers that may be needed for disposal of toxic or hazardous wastes		10	2	8
	PC12. apply ergonomic principles wherever required		10	2	8
		Total	100	20	80







Construction Skill Development Council 204, Aashirwad Complex, D-1, Green Park, New Delhi - 110016