



Model Curriculum

1. False Ceiling and Drywall Installer

SECTOR: Construction
SUB-SECTOR: Real Estate and Infrastructure Construction
OCCUPATION: Interior & Exterior Finishes
REF ID: CON/Q01107, V1.0
NSQF LEVEL: 3





TABLE OF CONTENTS

1. Curriculum	01
2. Trainer Prerequisites	14
3. Annexure: Assessment Criteria	15

False Ceiling and Drywall Installer

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “False Ceiling and Drywall Installer”, in the “Construction” Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	False Ceiling and Drywall Installer		
Qualification Pack Name & Reference ID. ID	CON/Q1107, v1.0		
Version No.	1.0	Version Update Date	31-03-2016
Pre-requisites to Training	Preferably 5 th standard		
Training Outcomes	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Gain insight into the job role: - Gain insight into the role and responsibility of a False Ceiling and Dry Wall Installer, its career progression. • Carry out preparatory works and levelling procedure for fixing false ceiling: - Carry out preparatory works and levelling works for fixing false ceiling • Install flush jointed ceiling system at construction site:- Select and use hand and power tools for installation of false ceiling and dry walls • Install exposed grid suspended panel ceiling system at construction site: Carry out measuring, marking and cutting of gypsum ,plaster , fibre and composite boards for installation of false ceiling and dry walls • Install wall partitions and panels: - Carry out installation of dry wall sheets on walls by fixing of dry wall boards with fasteners. • Work effectively in a team to deliver desired results at the workplace: - Introduction to team working and effective communication procedures to be followed at construction sites • Plan and organize work to meet expected outcomes: - Prioritizing activities and organising resources to meet desired outcome • Work According to personal Health, Safety & Environment: - Importance of health & safety aspect and measures to be followed at work site. 		

This course encompasses 7 out of 7 National Occupational Standards (NOS) of “False Ceiling and Drywall Installer” Qualification Pack issued by “Construction Skill Development Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 00:00</p>	<ul style="list-style-type: none"> • General Discipline in the class room. • Basic knowledge of Unit & measurement & arithmetic calculation. • Basic terms used and types of false ceiling and dry wall installation works • Role of False Ceiling and Dry Wall Installer in construction industry & their career progression 	<ol style="list-style-type: none"> 1. Classroom having seating requirement for 30 people. 2. Projector 3. Toilet/Urinals (Separate for gents and Ladies) 4. Blackboard
2	<p>Carry out preparatory works and leveling procedure for fixing false ceiling</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 44:00</p> <p>Corresponding NOS Code CON/N1120</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • Tools and equipment required for false ceiling work. • Basic knowledge of Unit & measurement & arithmetic calculation. • Basic process of levelling • basic mathematical techniques associated with leveling • levelling device types, characteristics, technical capabilities and limitations • different leveling instruments such as <ul style="list-style-type: none"> ❖ a spirit level and straight edge ❖ leveling with water technique ❖ laser levelling devices • sketches of the area / surface on which false ceiling is to be installed • sketches for false ceiling work • processes for interpreting sketches • processes for setting out and transfer of levels • process of marking perimeter for false ceiling works • application and requirements for line, level and plumb in construction projects • selection and use of tools and equipment required for fixing false ceiling including broad knives, , electric screw guns, hand and power drills, hand saws, scaffold planks, t squares, taping knives, trestles, etc • appropriate method of storing and stacking gypsum board, plasterboard fibre board • selection and use of appropriate materials including beads cement render, fibre cement sheets, finishing materials, plaster compounds, plasterboard, etc 	<ol style="list-style-type: none"> 1. Measuring tape 2. Scale 3. Right angle 4. Dry wall T-Square 5. Framing square 6. Chalk line 7. pencil 8. Line dori 9. Plumb bob 10. Spirit level 11. Pliers 12. Punch pliers 13. Paper cutting knife 14. Dry wall knife 12,6 and 4 inch 15. Dry wall Hammers 16. Taping knife 17. Sanding tool 18. Dry wall saw 19. Hack saw 20. Hand saw 21. Screw driver set 22. Screw gun 23. Drill machine 24. Metal cutter 25. Silicon gun/caulk gun 26. Stapler 27. Clutch angle 28. Utility knife

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • different type of false ceiling including grid ceiling, gypsum board ceiling, fiber board ceiling, concealed ceiling, semi concealed ceiling • Ceiling types including:- exposed grid, concealed grid, linear and open cell, metal firing, pan grid, other proprietary suspended ceilings. • how to measure and mark the gypsum board for cutting <p>Demonstration/Practical:-</p> <ul style="list-style-type: none"> • Carry out checks to ensure workability of tools and equipment required for false ceiling work. • Carry out checks to see stacking and alignment for materials like false ceiling such as boards, grids and for fixing hangers, grids and fixtures, etc. • Carry out check to ensure proper measuring and marking of the gypsum board has been carried out. • Check board is cut as per required markings • Carry out check to see the preparedness and safe erection of the access equipment, work platform and ladders. • Carry out measurement of the ceiling to assess the ceiling for fixing false ceiling. • Carry out marking /check for ceiling bracket and perimeter fixing. • Provide and confirm height to be transferred through sketches. • Carry out setting up of levelling device accurately and transfer the specified levels as per specification. • Carry out marking of location of ceiling brackets/perimeter for false ceiling work, partitions and dry wall installation. 	
3	<p>Install flush jointed ceiling system at construction site</p> <p>Theory Duration (hh:mm) 12:00</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • sketches for false ceiling work • Tools and equipment required for fixing false ceiling like broad knives, , electric screw guns, hand and power drills, hand 	<ol style="list-style-type: none"> 1. Measuring tape 2. Scale 3. Right angle 4. Dry wall T-Square 5. Framing square

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	<p>Practical Duration (hh:mm) 72:00</p> <p>Corresponding NOS Code CON/N1121</p>	<p>saws, scaffold planks, t squares, taping knives, trestles, etc</p> <ul style="list-style-type: none"> • Selection and use of tools and equipment required for fixing false ceiling • selection and use of appropriate materials including beads cement render, fibre cement sheets, finishing materials, plaster compounds, plasterboard etc. • different type of false ceiling including grid ceiling, gypsum board ceiling, fibre board ceiling, concealed ceiling, semi concealed ceiling • advantage and suitability of flush jointed ceiling system • Measuring and marking of the gypsum board for cutting • the importance of correct positioning of studs on side wall panels • describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:- tiles, grid components, hangers, battens, braces, light fittings, grilles, insulation, panels, sealants, fixings, fittings-hand and/or powered tools and equipment • installing suspended and fixed slush jointed ceiling system • various jointing compounds for plasterboard • process of providing cut out for services work using appropriate tools <p><u>Demonstration/Practical:-</u></p> <ul style="list-style-type: none"> • Carry out checks to ensure workability of tools and equipment required for false ceiling work. • establish datum and levels in accordance with the work specification • install fixing points in various backgrounds as per specification • mark the wall for fixing ceiling brackets and perimeter for suspended ceiling • mark and cut plasterboard/gypsum board/fiber board to required shape • apply various framing systems such as metal grid, steel furring, steel c-stud 	<ol style="list-style-type: none"> 6. Chalk line 7. pencil 8. Line dori 9. Plumb bob 10. Spirit level 11. Pliers 12. Punch pliers 13. Paper cutting knife 14. Dry wall knife 12,6 and 4 inch 15. Dry wall Hammers 16. Taping knife 17. Sanding tool 18. Dry wall saw 19. Hack saw 20. Hand saw 21. Screw driver set 22. Screw gun 23. Drill machine 24. Metal cutter 25. Silicon gun/caulk gun 26. Stapler 27. Clutch angle 28. Utility knife

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>and resilient mounted furring channel as per specification</p> <ul style="list-style-type: none"> • fix plasterboard directly to metal grid, steel furring, steel c-stud and resilient mounted furring channel as per specification • provide control joints as per specifications • cover joints and edges of plasterboards using jointing compound and paper tape to strengthen the joints • provide cut out for services work as per specification • finish the fixed board using appropriate compounds, cements and accessories for finishing plasterboard • fix metal ceiling angle strip from roof at specified points as per drawing/specification for suspended flush jointed ceiling systems. • Connect free ends of the metal ceiling angle strips to the perimeter channel using intermediate channels with metal-to-metal screws. • fix and fit the ceiling sections to the perimeter channel, perpendicular to intermediate channels • connect ceiling sections to the intermediate channels using a connecting clip/appropriate fasteners • fix plasterboards of the desired thickness to the ceiling sections • cover joints and edges ,provide cut out and finish the fixed board using appropriate compounds, 	
4	<p>Install exposed grid suspended panel ceiling system at construction site</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 72:00</p> <p>Corresponding NOS Code CON/N1122</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • sketches of the area / surface on which false ceiling is to be installed • sketches for false ceiling work • tools and equipment required for fixing false ceiling including broad knives, , electric screw guns, hand and power drills, hand saws, scaffold planks, t squares, taping knives, trestles, etc • selection and use of appropriate materials including beads cement render, 	<ol style="list-style-type: none"> 1. Measuring tape 2. Scale 3. Right angle 4. Dry wall T-Square 5. Framing square 6. Chalk line 7. pencil 8. Line dori 9. Plumb bob 10. Spirit level 11. Pliers 12. Punch pliers

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p> fibre cement sheets, finishing materials, plaster compounds, plasterboard, etc <ul style="list-style-type: none"> • different type of false ceiling including grid ceiling, gypsum board ceiling, fiber board ceiling, concealed ceiling, semi concealed ceiling • Process of measuring and marking the gypsum board for cutting • advantage and suitability of flush jointed ceiling system • the importance of correct positioning of studs on side wall panels • characteristics, quality, uses, limitations and defects associated with the resources in relation to:- tiles, grid components, hangers, battens, braces, light fittings, grilles, insulation, panels, sealants, fixings, fittings ,hand and/or powered tools and equipment. • Installation of suspended and fixed slush jointed ceiling system • various jointing compounds for plasterboard • different joints for plasterboard fixing <p><u>Demonstration/Practical:-</u></p> <ul style="list-style-type: none"> • Carry out checks to ensure workability of tools and equipment required for false ceiling work. • establish datum and levels in accordance as per work specification • set out and install fixing points in various backgrounds as per specification • mark the wall for fixing ceiling brackets and perimeter for suspended ceiling • mark and cut plasterboard to required shape/as per panel size to fit around columns, sprinklers and to accommodate flush lighting systems, etc • install selected wall trim with the bottom flange aligned at the required ceiling level • position and fix suspension brackets to the floor/roof structure to support main tees • cut main tees so that the cross tee slots are appropriately located to suit the margin </p>	<ul style="list-style-type: none"> 13.Paper cutting knife 14.Dry wall knife 12,6 and 4 inch 15.Dry wall Hammers 16.Taping knife 17.Sanding tool 18.Dry wall saw 19.Hack saw 20.Hand saw 21.Screw driver set 22.Screw gun 23.Drill machine 24.Metal cutter 25.Silicon gun/caulk gun 26.Stapler 27.Clutch angle 28.Utility knife

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • install main tees into the suspension brackets by appropriate method • join main tees by sliding the self-locking end tabs together • install the cross tees through the pre-punched slots in the main tees • install the outer cross tees on to the wall trim as per specifications • provide additional cross tees to support panels at the side of light fittings • position grid on the bottom flanges of the grid main/cross tees • cover joints and edges of plasterboards panels using jointing compound and finish using appropriate compounds 	
5	<p>Install wall partitions and panels</p> <p>Theory Duration (hh:mm) 12:00</p> <p>Practical Duration (hh:mm) 68:00</p> <p>Corresponding NOS Code CON/N1123</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • Tools and equipment required for false ceiling work. • schematic drawings and sketches for façade installation • drawings and specifications related to fixing of wall partitions and panels • selection and use of tools and equipment and materials • how to mark the line of partition and level on required surfaces • how to level the floor before installing the floor frame • different types of joints to be used in frames including butt joint, etc • appropriate measurements and markings for cutting panels • understand method statement for installation of panels • how to calculate area and layout of board to be installed • the importance of providing proper spacing between screws • how to place fixing element perpendicular to the surface of panel • the importance of providing proper spacing between vertical joints of panels and partitions • correct positions of wall partition boards before fixing 	<ol style="list-style-type: none"> 1. Measuring tape 2. Scale 3. Right angle 4. Dry wall T-Square 5. Framing square 6. Chalk line 7. pencil 8. Line dori 9. Plumb bob 10. Spirit level 11. Pliers 12. Punch pliers 13. Paper cutting knife 14. Dry wall knife 12,6 and 4 inch 15. Dry wall Hammers 16. Taping knife 17. Sanding tool 18. Dry wall saw 19. Hack saw 20. Hand saw 21. Screw driver set 22. Screw gun 23. Drill machine 24. Metal cutter 25. Silicon gun/caulk gun 26. Stapler 27. Clutch angle

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • How to check the line and plumb of fixed vertical sections of partitions. <p>Demonstration/Practical:-</p> <ul style="list-style-type: none"> • Carry out checks to ensure workability of tools and equipment required for false ceiling work. • Carry out checks to ensure proper cleaning of walls, floors and other possible contact areas • Carry out checks to ensure the line of partition and level on end wall or column, slab soffit and floor slab is marked as per approved shop drawings • Carry out checks to ensure evenness of slab soffit before installing the ceiling frame • Carry out levelling of the floor before installing the floor frame • Carry out checks to ensure that the ceiling and floor frame are fixed properly • Carry out checks to ensure spacing between frames is as per board dimension and layout • Carry out checks to ensure the height of vertical frame is as per specification • Carry out checks to ensure the joints in the frames are jointed as per specification • Carry out checks to ensure boards are accurately marked and cut to the required dimensions • Carry out checks to ensure proper spacing between bottom end of panel and floor • Check to ensure additional support for fixing door frames /sockets/additional fixtures is provided in studs • follow method statement for installation of horizontal and vertical panels • calculate area and layout of board to be installed • Check installation of supporting structures for correct alignment of the panels • Carry out checks to ensure correct positioning of panels before fixing • fix the panel on the frame using screws 	<p>Utility knife</p>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>ensuring proper spacing between screws</p> <ul style="list-style-type: none"> • Carry out checks to ensure verticality of the end wall using a spirit level or laser marker place studs in direct contact with doors frame jambs, abutting partitions, partition corners/edges, and existing construction elements • Carry out checks proper placement of fixing element perpendicular to the surface of panel • check overall verticality of studs • install screws from ends and edges of panels, and on centre along abutting end joints • install panels in such a manner that panel joints do not align with edge of opening • fix the panels on the required surface ensuring minimum distance from the edges of the panel for multi-layered boards, stagger joints between the layers, as well as on opposite sides of partitions • ensure proper spacing between vertical joints of panels and partitions • cover panel joints with cover plates • check that the panels or partition boards are correctly aligned and that the joints are precise • ensure that the infill and cladding panels should be free from any distortions and joints are accurately aligned • follow method statement for fixing of wall partitions • calculate area and layout of board to be installed • ensure that the supporting structures are correctly installed for correct alignment of the partitions • ensure correct positioning of partition boards before fixing • ensure proper spacing between screws • place studs in direct contact with doors frame jambs, abutting partitions, partition corners/edges, and existing construction elements • ensure that the surface is clean and dry before applying fixing element to the required surface 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • ensure proper placement of fixing element perpendicular to the surface of partition board • check overall verticality of studs • ensure horizontal bracing for all stud partitions should be as per approved and standard procedures • install screws from ends and edges of partition boards, and on centre along abutting end joints • fix the abutments, junction posts, head and floor frames in line and plumb • fix the vertical sections of partitions in line and plumb, level and line the horizontal members such as transoms, crash rails, etc. 	
6	<p>Work effectively in a team to deliver desired results at the workplace</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 26:00</p> <p>Corresponding NOS Code CON/N8001</p>	<p>Theory: -</p> <ul style="list-style-type: none"> • Method of oral and written communication skills with co-workers, trade seniors while handling and carrying out visual checks on materials, tools and equipment. • Reading and interpretation of work sketches • How to interpret scope of false ceiling and dry wall installation works, material/ tools handling by an adhering to instructions or consulting with seniors • Method of providing instruction to subordinates or reporting to seniors clearly and promptly • Seek necessary support and complete assigned tasks within stipulated time duration • Keep good relation and maintain good behaviour with co-workers <p>Demonstration/ Practical :- The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition</p> <ul style="list-style-type: none"> • Selection of materials, tools or devices for defined purpose under false ceiling and dry wall installation works and providing instructions to subordinates for the same. 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Handling of tools, equipment and materials for various types of façade installation works including efficiently communicating with co-workers for desired requirement as per specification • Carrying out installation of flush jointed ceiling system, exposed grid suspended panel ceiling system, wall partition and panels works while working as a team to ensure optimum utilization of material and resources • Carrying out false ceiling and dry wall installation works utilizing the effort of co-workers. • Undertaking visual checks to assess the quality of material and check line, level and alignments of work • Selection and handing over of desired/ appropriate tools/ materials while assisting trade senior 	
7	<p>Plan and organize work to meet expected outcomes</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code CON/N8002</p>	<p>Theory:-</p> <ul style="list-style-type: none"> • To plan false ceiling and dry wall installation activities within defined scope of work • Basic concept of productivity, sequence of working and implementation of safety and organizational norms while working • Upkeep, storing and stacking methods of tools, materials used for domain specific works • Requisition of resources, reporting for requirement of resources orally and in written to concerned authority - (T/P) <p>Demonstration/ Practical :- The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition</p> <ul style="list-style-type: none"> • Selection of materials, tools or devices for defined purpose in an optimum manner • Handling/organizing masonry tools, material, fixtures and device for installation of exposed grid suspended ceiling system works. • Prioritize all works/ activities • Planning installation of wall partitions and panel works as per scope and schedule. • Carrying out installation of flush jointed ceiling system by optimum utilization of material and resources • Optimum use of resources while performing task 	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> Adherence to stipulated timelines for completion of false ceiling and dry wall installation activities/ tasks 	
8	<p>Work according to personal health, safety and environment protocol at construction site</p> <p>Theory Duration (hh:mm) 08:00</p> <p>Practical Duration (hh:mm) 40:00</p> <p>Corresponding NOS Code CON/N9001</p>	<p>Theory: -</p> <ul style="list-style-type: none"> Types of hazards involved in construction sites Types of hazards involved in False ceiling and dry wall installation works. Emergency safety control measures and actions to be taken under emergency situation Concept of: - <ol style="list-style-type: none"> First Aid process Use of fire extinguisher Classification of fires and fire extinguisher Safety drills Types and use of PPEs as per safety norms Reporting procedure to the concerned authority in emergency situations Standard procedure of handling, storing and stacking material. What is safe disposal of waste, type of waste and their disposal Importance of handling tools, equipment and materials as per applicable. Safety relevant to tools, tackles, & requirement as per applicability. basic ergonomic principles as per applicability <p>Demonstration/ Practical (D/P): - The skills will be developed and practiced while carrying out following trade related activities in a predictable and familiar working condition.</p> <ul style="list-style-type: none"> Selection of PPEs and use them appropriately as per working need of False ceiling and dry wall installation works, handling, storing, stacking and shifting of False ceiling and dry wall installation works tools and equipment Selection of PPEs and use them appropriately as per False ceiling and dry wall installation works need. 	<ol style="list-style-type: none"> Safety Helmets Face shield Overalls Knee pads Safety shoes Safety belts Safety harness Safety Gloves Safety goggles Particle masks Ear Plugs Reflective jackets Fire Extinguisher Fire prevention kit First Aid box Safety tags Safety Notice board

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> • Analysis of hazards involved in false ceiling and dry wall installation works and taking necessary steps or informing to seniors. • Identification of locations, situations/ circumstances, malpractices which can be hazardous for general or False ceiling and dry wall installation works • Selection of fire extinguisher based on classification of fire, standard practice of storing & stacking firefighting equipment/ materials at work locations • Disposal of waste materials as per their nature and effects on weather 	
	<p>Total Duration</p> <p>Theory Duration 80:00</p> <p>Practical Duration 320:00</p>	<p>Unique Equipment Required: Classroom having seating requirement for 30 people. Projector, Toilet/Urinals (Separate for gents and Ladies) Blackboard, Measuring tape, Scale, Right angle, Dry wall T-Square, Framing square, Chalk line, pencil, Line dori, Plumb bob, Spirit level, Pliers, Punch pliers, Paper cutting knife, Dry wall knife 12,6 and 4 inch, Dry wall Hammers, Taping knife, Sanding tool Dry wall saw, Hack saw, Hand saw, Screw driver set, Screw gun, Drill machine, Metal cutter, Silicon gun/caulk gun, Stapler, Clutch angle, Utility knife, Hammer, Spanner (set), Wrench, Pulley, Rope, Nuts and bolts, Measuring tape, Spirit level, Plumb-bob , Mason's line , Cup-lock scaffolding components (set), 40 NB pipes, Swivel coupler, Fixed clamp, Steel walers, Steel walkways, Aluminum/ GI ladder, Safety net, Safety Helmets, Face shield, Overalls, Knee pads, Safety shoes, Safety belts, Safety harness, Safety Gloves, Safety goggles, Particle masks, Ear Plugs, Reflective jackets, Fire Extinguisher, Fire prevention kit, First Aid box, Safety tags, Safety Notice board</p>	

Grand Total Course Duration: **400 Hours, 0 Minutes**

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



Trainer Prerequisites for Job role: “False Ceiling and Drywall Installer” mapped to Qualification Pack: “CON/Q1107” , v1.0”

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “CON/Q1107”.
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	ITI/12th
4a	Domain Certification	Trainer/Assessor-50% in each NOS & 80% overall, Lead trainer/ Lead Assessors- 50% in each NOS and overall 90%
4b	Platform Certification	Trainer/Assessor-80% in each NOS and Lead trainer/Lead Assessors-90% in each NOS
5	Experience	i. Technical Degree holder with minimum three years of Field experience and preferably two years of teaching experience or, ii. In case of a Diploma Holder five years of field experience and preferably two years of teaching experience or, iii. In case of ITI/12 th pass minimum eight years of field experience and preferably two years of teaching Experience.



CRITERIA FOR ASSESSMENT OF TRAINEES

<u>Job Role</u>	Chargehand False Ceiling & Dry Wall Installer
<u>Qualification Pack</u>	CON/Q1109
<u>Sector Skill Council</u>	Construction

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 center based on assessment criteria.
5. The passing percentage for each QP will be 70%. To pass the Qualification Pack, every trainee should score a minimum of 70% 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.



Assessment outcomes	Assessment Criteria for outcomes	Total Mark	Out Of	Marks Allocation	
				Theory	Skills Practical
CON/N1120: Carry out preparatory works and leveling procedure for fixing false ceiling	PC1. understand and follow the instructions provided by the supervisor for fixing of false ceiling	100	5	1	4
	PC2. check all tools and equipments for false ceiling work are provided at the workplace		5	1	4
	PC3. check that clearance for carrying out false ceiling work is provided		5	1	4
	PC4. check material for false ceiling such as boards, grids and for fixing hangers, grids and fixtures, etc. are stacked and aligned appropriately at the workplace		5	1	4
	PC5. ensure that board(gypsum, plaster, fiber board)is measured accurately as per specifications using correct tools		5	1	4
	PC6. ensure proper markings are done on gypsum board for cutting to the required dimensions		5	1	4
	PC7. check and ensure board is cut as per required specification		5	1	4
	PC8. check and ensure markings are done for ceiling brackets and perimeter as per specification		5	1	4
	PC9. measure and assess the ceiling for fixing of false ceiling		6	1.2	4.8
	PC10. notify superior in case of any deviation in levels for perimeter fixing		6	1.2	4.8
	PC11. check that access equipments like work platforms and ladders are safely erected and in place		6	1.2	4.8
	PC12. confirm the start point and end point for false ceiling installation		6	1.2	4.8
	PC13. select tools and equipments to carry out leveling and marking		6	1.2	4.8
	PC12. check for serviceability of tools and equipments prior to use		6	1.2	4.8
	PC13. confirm heights or levels to be transferred from sketches through instructions		6	1.2	4.8
	PC14. set up leveling device accurately		6	1.2	4.8
	PC15. record heights or level and the transfer data points		6	1.2	4.8
	PC16. transfer the specified levels as per specification		6	1.2	4.8
PC17. mark the location of ceiling brackets/perimeter for false ceiling works ,partitions and dry wall installation	6	1.2	4.8		
PC18. convey any deviation in level to the superiors and rectify levels as per instructions	5	1	4		
	Total	100	20	80	

<p>CON/N1121: Install flush jointed ceiling system at construction site</p>	PC1. understand and follow the instructions provided by the supervisor for fixing of false ceiling	100	2	0.4	1.6
	PC2. establish datums and levels in accordance with the work specification		2	0.4	1.6
	PC3. set out and install fixing points in various backgrounds in accordance with the specification		4	0.8	3.2
	PC4. mark the wall for fixing ceiling brackets and perimeter for suspended ceiling		6	1.2	4.8
	PC5. mark and cut plasterboard/gypsum board/fiber board to required shape		5	1	4
	PC6. apply various framing systems such as metal grid, steel furring, steel c-stud and resilient mounted furring channel as per specification		5	1	4
	PC7. use adhesive and/or fastener to fix plasterboard directly to metal grid, steel furring, steel c-stud and resilient mounted furring channel as per specification		5	1	4
	PC8. provide control joints as per specifications		5	1	4
	PC9. cover joints and edges of plasterboards using jointing compound and paper tape to strengthen the joints		5	1	4
	PC10. provide cut out for services work as per specification		5	1	4
	PC11. finish the fixed board using appropriate compounds, cements and		5	1	4
	PC12. accessories for finishing plasterboard installations thereby hiding screws and bolts		4	0.8	3.2
	PC13. draw a line completely around the room using a level indicating the position of wall angle		5	1	4
	PC14. mark the wall for fixing ceiling brackets and perimeter for suspended ceiling		5	1	4
	PC15. fasten the wall angles/perimeter channel securely to the wall at all points		5	1	4
	PC16. fix wall angles using screw anchors, nails or other masonry fasteners on brick or masonry walls		4	0.8	3.2
	PC17. fix metal ceiling angle strip from roof at specified points as per drawing/specification		4	0.8	3.2
	PC18. connect free ends of the metal ceiling angle strips to the perimeter channel using intermediate channels with metal-to-metal screws		4	0.8	3.2
	PC19. fix and fit the ceiling sections to the perimeter channel, perpendicular to the intermediate channels		4	0.8	3.2
	PC20. connect ceiling sections to the intermediate channels using a connecting clip or appropriate fasteners		4	0.8	3.2

	PC21. fix plasterboards of the desired thickness to the ceiling sections with drywall screws		4	0.8	3.2
	PC22. cover joints and edges of plasterboards using jointing compound and paper tape to strengthen the joints		4	0.8	3.2
	PC23. provide cut out for services work as per specification		2	0.4	1.6
	PC24. finish the fixed board using appropriate compounds, cements and accessories for finishing plasterboard installations thereby hiding screws and bolts		2	0.4	1.6
		Total	100	20	80
CON/N 1122: Install exposed grid suspended panel ceiling system at construction site	PC1. understand and follow the instructions provided by the supervisor for fixing of false ceiling		6	1.2	4.8
	PC2. establish datums and levels in accordance with the work specification		6	1.2	4.8
	PC3. set out and install fixing points in various backgrounds in accordance with the specification		7	1.4	5.6
	PC4. mark the wall for fixing ceiling brackets and perimeter for suspended ceiling		7	1.4	5.6
	PC5. mark and cut plasterboard to required shape/as per panel size to fit around columns, sprinklers and to accommodate flush lighting systems, etc		6	1.2	4.8
	PC6. install selected wall trim with the bottom flange aligned at the required ceiling level		6	1.2	4.8
	PC7. accurately position and fix suspension brackets to the floor/roof structure to support main tees		6	1.2	4.8
	PC8. cut main tees so that the cross tee slots are appropriately located to suit the margin		6	1.2	4.8
	PC9. install main tees into the suspension brackets by appropriate method		7	1.4	5.6
	PC10. join main tees by sliding the self-locking end tabs together and locate the outer ends of the main tees on the wall trim for stability		7	1.4	5.6
	PC11. install the cross tees through the pre-punched slots in the main tees forming a grid		6	1.2	4.8
	PC12. cut and install the outer cross tees on to the wall trim as per specifications		6	1.2	4.8
	PC13. provide additional cross tees to support panels at the side of light fittings		6	1.2	4.8
	PC14. lift the different panel through the grid and position face down on the bottom flanges of the grid main/cross tees		6	1.2	4.8
	PC15. cover joints and edges of plasterboards panels using jointing compound and paper tape to strengthen the joints		6	1.2	4.8
	PC16. finish the fixed board using appropriate compounds, cements and accessories		6	1.2	4.8

		Total	100	20	80
CON/N 1123: Install wall and partitions and panels	PC1. check to ensure proper cleaning of walls, floors and other possible contact areas	100	2	0.4	1.6
	PC2. check to ensure the line of partition and level on end wall or column, slab soffit and floor slab is marked as per approved shop drawings		2	0.4	1.6
	PC3. check to ensure evenness of slab soffit before installing the ceiling frame		2	0.4	1.6
	PC4. level the floor before installing the floor frame		2	0.4	1.6
	PC5. check and ensure that the ceiling and floor frame are fixed properly		2	0.4	1.6
	PC6. check to ensure spacing between frames is as per board dimension and layout		2	0.4	1.6
	PC7. check to ensure the height of vertical frame is as per specification		2	0.4	1.6
	PC8. check to ensure the joints in the frames are jointed as per specification		2	0.4	1.6
	PC9. ensure boards are accurately marked for cutting to the required dimensions		2	0.4	1.6
	PC10. ensure panels are cut as per specified dimensions using correct tools and equipments		2	0.4	1.6
	PC11. ensure proper spacing between bottom end of panel and floor		2	0.4	1.6
	PC12. ensure additional support for fixing door frames /sockets/additional fixtures is provided in studs		2	0.4	1.6
	PC12. follow method statement for installation of horizontal and vertical panels		2	0.4	1.6
	PC13. identify and calculate area and layout of board to be installed		3	0.6	2.4
	PC14. ensure that the supporting structures are correctly installed for correct alignment of the panels		2	0.4	1.6
	PC16. ensure correct positioning of panels before fixing		3	0.6	2.4
	PC17. fix the panel on the frame using screws ensuring proper spacing between screws		3	0.6	2.4
	PC18. ensure verticality of the end wall using a spirit level or laser marker		3	0.6	2.4
	PC19. place studs in direct contact with doors frame jambs, abutting partitions, partition corners/edges, and existing construction elements		3	0.6	2.4
	PC20. ensure proper placement of fixing element perpendicular to the surface of panel		3	0.6	2.4
	PC21. check overall verticality of studs		3	0.6	2.4
	PC22. Install screws from ends and edges of panels, and on centre along abutting end joints		3	0.6	2.4

PC23. install panels in such a manner that panel joints do not align with edge of opening	3	0.6	2.4
PC24. fix the panels on the required surface ensuring minimum distance from the edges of the panel	3	0.6	2.4
PC25. for multi-layered boards, stagger joints between the layers, as well as on opposite sides of partitions	3	0.6	2.4
PC26. ensure proper spacing between vertical joints of panels and partitions	3	0.6	2.4
PC27. cover panel joints with cover plates	3	0.6	2.4
PC28. check that the panels or partition boards are correctly aligned and that the joints are precise	2	0.4	1.6
PC29. ensure that the infill and cladding panels should be free from any distortions and joints are accurately aligned	2	0.4	1.6
PC30. follow method statement for fixing of wall partitions	2	0.4	1.6
PC31. identify and calculate area and layout of board to be installed	3	0.6	2.4
PC32. ensure that the supporting structures are correctly installed for correct alignment of the partitions	2	0.4	1.6
PC33. ensure correct positioning of partition boards before fixing	2	0.4	1.6
PC34. ensure proper spacing between screws	2	0.4	1.6
PC35. place studs in direct contact with doors frame jambs, abutting partitions, partition corners/edges, and existing construction elements	2	0.4	1.6
PC36. ensure that the surface is clean and dry before applying fixing element to the required surface	2	0.4	1.6
PC37. ensure proper placement of fixing element perpendicular to the surface of partition board	2	0.4	1.6
PC38. check overall verticality of studs	3	0.6	2.4
PC39. ensure horizontal bracing for all stud partitions should be as per approved and standard procedures	2	0.4	1.6
PC40. install screws from ends and edges of partition boards, and on centre along abutting end joints	2	0.4	1.6
PC41. fix the abutments, junction posts, head and floor frames in line and plumb	2	0.4	1.6
PC42. fix the vertical sections of partitions in line and plumb	3	0.6	2.4

	PC43. level and line the horizontal members such as transoms, crash rails, etc.		2	0.4	1.6
		Total	100	20	80
CON/N8001: Work effectively in a team to deliver desired results at the workplace	PC1. pass on work related information/ requirement clearly to the team members	100	10	2	8
	PC2. inform co-workers and superiors about any kind of deviations from work		5	1	4
	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 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 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
CON/N8002: Plan and organize work to meet expected outcomes	PC1. understand clearly the targets and timelines set by superiors	100	10	2	8
	PC2. plan activities as per schedule and sequence		10	2	8
	PC3. provide guidance to the subordinates to obtain desired outcome		10	2	8
	PC4. plan housekeeping activities prior to and post completion of work		10	2	8
	PC5. list and arrange required resources prior to commencement of work		10	2	8
	PC6. select and employ correct tools, tackles and equipment for completion of desired work		10	2	8
	PC7. complete the work with allocated resources		10	2	8
	PC8. engage allocated manpower in an appropriate manner		10	2	8
	PC9. use resources in an optimum manner to avoid any unnecessary wastage		5	1	4
	PC10. employ tools, tackles and equipment with care to avoid damage to the same		5	1	4
	PC11. organize work output, materials used, tools and tackles deployed,		5	1	4
	PC12. processes adopted to be in line with the specified standards and instructions		5	1	4
			Total	100	20
CON/N9001: Work according to personal health, safety	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	100	5	1	4
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		5	1	4



and 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: <ul style="list-style-type: none"> • Head Protection (Helmets) • Ear protection • Fall Protection • Foot Protection • Face and Eye Protection • Hand and Body Protection • Respiratory Protection (if required) 		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
	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