



# Model Curriculum

## 1. Chargehand False Ceiling and Dry Wall Installer

**SECTOR: Construction**

**SUB-SECTOR: Real Estate and Infrastructure Construction**

**OCCUPATION: Interior and Exterior Finishes**

**REF ID: CON/Q1109, V1.0**

**NSQF LEVEL: 4**





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# Chargehand False Ceiling and Dry Wall Installer

## CURRICULUM / SYLLABUS

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

<b>Program Name</b>	<b>Chargehand – False Ceiling and Dry wall Installer</b>		
<b>Qualification Pack Name &amp; Reference ID. ID</b>	CON/Q1109, v1.0		
<b>Version No.</b>	1.0	<b>Version Update Date</b>	23-08-2017
<b>Pre-requisites to Training</b>	Preferably 8 <sup>th</sup> standard with 9 Years site experience in same occupation for Non-trained worker/ 3 years site experience as a certified False Ceiling and Dry wall Installer for trained worker.		
<b>Training Outcomes</b>	<p><b>After completing this programme, participants will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Gain insight in to job role of Chargehand False Ceiling and Dry Wall Installer:</b> Introduction to the roles and responsibilities of the job role, its career progression and expected outcomes.</li> <li>• <b>Read and interpret drawing specifications and carry out layout marking for false ceiling and dry wall installation:</b> Read and interpret drawing and specification related to false ceiling and dry wall installation works .Use tools to carry out layout marking for False Ceiling and Dry wall Installation works.</li> <li>• <b>Carry out installation of specialized false ceiling for complex structures:</b> Select tools and equipment and carry out installation of specialized false ceiling for complex structures.</li> <li>• <b>Carry out installation of false ceiling on complex structures at complex location:</b> Select tools and equipment and carry out installation of false ceiling for complex structures at complex locations.</li> <li>• <b>Carry out installation of twin frame dry wall system, curved dry walls and wall partitions:</b> Select tools and equipment and carry out installation of twin frame dry wall system, curved dry wall and wall partitions.</li> <li>• <b>Work effectively in a team to deliver desired results at the workplace :</b> Introduction to team working and effective communication procedures to be followed at construction sites</li> <li>• <b>Plan and organize work to meet expected outcomes :</b> Prioritizing activities and organising resources to meet desired outcome</li> <li>• <b>Work according to personal health, safety and environment protocol at construction site:</b> Importance of health &amp; safety aspect and measures to be followed at work site.</li> </ul>		

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

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Introduction</b></p> <p><b>Theory Duration</b> (hh:mm) 8:00</p> <p><b>Practical Duration</b> (hh:mm) 00:00</p>	<ul style="list-style-type: none"> <li>• Overview of construction sector and its importance</li> <li>• Basic terms used and types of false ceiling and dry wall installation works.</li> <li>• Basic knowledge of Unit &amp; measurement &amp; arithmetic calculation</li> <li>• Job opportunities for Chargehand False Ceiling and Dry wall Installer in construction sector</li> <li>• training session and training delivery plan</li> <li>• Roles and responsibilities of Chargehand False Ceiling and Dry wall Installer</li> </ul>	<p><b>Classroom Requirement</b></p> <ol style="list-style-type: none"> <li>1. Classroom having seating requirement for 30 people.</li> <li>2. Projector</li> <li>3. Toilet/Urinals (Separate for gents and Ladies)</li> <li>4. Blackboard</li> <li>5. Trade specific charts and other teaching aids</li> </ol>
2	<p><b>Read and interpret drawing specifications and carry out layout marking for false ceiling and Dry wall installation</b></p> <p><b>Theory Duration</b> (hh:mm) 24:00</p> <p><b>Practical Duration</b> (hh:mm) 56:00</p> <p><b>Corresponding NOS Code</b> CON/N1126</p>	<p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>• principle of measurement, advance geometry and arithmetic</li> <li>• schematic drawings and sketches for false ceiling and dry wall installation</li> <li>• different architectural drawing for false ceiling and dry wall installation</li> <li>• scope of work for false ceiling and dry wall installation</li> <li>• manufacturer's instructions for False Ceiling and Dry wall Installation</li> <li>• method statement for False Ceiling and Dry wall Installation works</li> <li>• basic process of levelling</li> <li>• basic mathematical techniques associated with levelling</li> <li>• levelling device types, characteristics, technical capabilities and limitations</li> <li>• different levelling instruments <ul style="list-style-type: none"> <li>❖ a spirit level and straight edge</li> <li>❖ levelling with water technique</li> <li>❖ laser levelling devices</li> </ul> </li> <li>• processes for interpreting sketches</li> <li>• processes for setting out and transfer of levels</li> <li>• process of marking perimeter for false ceiling work</li> <li>• Application of tools and equipment required for fixing false ceiling including broad knives, , electric screw guns, hand and power drills, handsaws, scaffold planks, t squares, taping knives, trestles, etc</li> <li>• Various methods of storing and stacking gypsum boards, plasterboards, fibre boards etc.</li> <li>• different type of false ceiling including grid ceiling, gypsum board ceiling, fiber board ceiling, concealed ceiling, semi concealed ceiling</li> </ul>	<ol style="list-style-type: none"> <li>1. Measuring tape</li> <li>2. Scale</li> <li>3. Right angle</li> <li>4. Framing square</li> <li>5. Chalk line</li> <li>6. pencil</li> <li>7. Line dori</li> <li>8. Plumb bob</li> <li>9. Spirit level</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• ceiling types including:- exposed grid, concealed grid, linear and open cell, metal firing, pan grid, other proprietary suspended ceilings</li> </ul> <p><b>Demonstration/ Practical: -</b></p> <ul style="list-style-type: none"> <li>• Carry out reading of drawing for false ceiling and dry wall installation works</li> <li>• Interpret required details like place of fixing, dimensions and type of false ceiling for False Ceiling and Dry wall Installation works from relevant drawings</li> <li>• Interpret details of information from scope of work including type of false ceiling, brackets, secondary framing elements, boards, grids and for fixing hangers, grids and fixtures, etc.</li> <li>• Interpret details of information from manufacturer's specification regarding the elements of frames, panels, dry wall and their installation</li> <li>• Read and interpret method statement for False Ceiling and Dry wall Installation works</li> <li>• Carry out checks prior to installation of false ceiling to ensure compliance and adequacy of structure</li> <li>• Report to superior in case there is any surface undulation</li> <li>• Carry out field measurement for wall framing members on surface of structure</li> <li>• Ensure gypsum board is marked and cut appropriately.</li> <li>• Carry out check to ensure markings are done for ceiling brackets and perimeter as per specification</li> <li>• Carry out checks to measure and assess the ceiling for fixing of false ceiling</li> <li>• Demonstrate process of notifying superior in case of any deviation in levels for perimeter fixing</li> <li>• Convey and confirm heights or levels to be transferred from sketches through instructions</li> <li>• Carry out markings for cut-outs in panels in false ceiling and dry wall partitions.</li> <li>• Check and ensure provision of door and window in appropriately</li> </ul>	
3	<p><b>Carry out installation of specialized false ceiling for complex structures</b></p> <p><b>Theory Duration</b> (hh:mm) 32:00</p> <p><b>Practical Duration</b></p>	<p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>• schematic drawings and sketches for False Ceiling and Dry wall Installation works</li> <li>• scope of work for False Ceiling and Dry wall Installation works</li> <li>• manufacturer's instructions for False Ceiling and Dry wall Installation including that for elements of frame and panels</li> </ul>	<ol style="list-style-type: none"> <li>1. Measuring tape</li> <li>2. Scale</li> <li>3. Right angle</li> <li>4. Framing square</li> <li>5. Chalk line</li> <li>6. pencil</li> <li>7. Line dori</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	(hh:mm) 96:00  <b>Corresponding NOS Code</b> CON/N1127	<ul style="list-style-type: none"> <li>• method statement for False Ceiling and Dry wall Installation works</li> <li>• basic process of levelling</li> <li>• basic mathematical techniques associated with levelling</li> <li>• levelling device types, characteristics, technical capabilities and limitations</li> <li>• different levelling instruments               <ul style="list-style-type: none"> <li>❖ a spirit level and straight edge</li> <li>❖ levelling with water technique</li> <li>❖ laser levelling devices</li> </ul> </li> <li>• processes for interpreting sketches</li> <li>• processes for setting out and transfer of levels</li> <li>• process of marking perimeter for false ceiling work</li> <li>• Application of tools and equipment required for fixing false ceiling including broad knives, , electric screw guns, hand and power drills, handsaws, scaffold planks, t squares, taping knives, trestles, etc</li> <li>• Different methods of storing and stacking gypsum board, plasterboard, fibre board</li> <li>• Application of various materials including beads cement render, fibre cement sheets, finishing materials, plaster compounds, plasterboard, etc required for false ceiling and dry wall installation works</li> <li>• different type of false ceiling such as grid ceiling, gypsum board ceiling fiber board ceiling, concealed ceiling, semi concealed ceiling</li> <li>• Various ceiling types including:- exposed grid, concealed grid, linear and open cell, metal firing, pan grid, other proprietary suspended ceilings</li> <li>• how to measure and mark the gypsum board for cutting</li> <li>• application and requirements for line, level and plumb in construction projects</li> </ul> <p><b>Demonstration/ Practical: -</b></p> <ul style="list-style-type: none"> <li>• Carry out identification of materials and components as per specifications and pattern</li> <li>• check tools for false ceiling</li> <li>• Carry out checks to confirm material suitability for false ceiling such as boards, grids for fixing hangers, grids and firings etc and ensure they are stacked and aligned appropriately at the workplace</li> <li>• Carry out checks to ensure board is cut as per required specification</li> </ul>	<ol style="list-style-type: none"> <li>8. Plumb bob</li> <li>9. Spirit level</li> <li>10. Laser Level</li> <li>11. Pliers</li> <li>12. Punch pliers</li> <li>13. Hammers</li> <li>14. Taping knife</li> <li>15. Sanding tool</li> <li>16. Hand circular saw</li> <li>17. Hack saw</li> <li>18. Jig saw</li> <li>19. Rake angle</li> <li>20. Screw driver set</li> <li>21. Screw gun</li> <li>22. Hammer Drill machine</li> <li>23. Rivet gun</li> <li>24. Metal cutter</li> <li>25. Silicon gun/caulk gun</li> <li>26. Stapler</li> <li>27. Clutch angle</li> <li>28. Utility knife</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Carry out checks to ensure markings are done for ceiling brackets and perimeter as per specification</li> <li>• Carry out measurements and checks to verify adequacy and size of ceiling is as per installation requirement</li> <li>• Carry out checks to ensure access equipment like work platforms and ladders are safely erected and are in place</li> <li>• Carry out fixing of horizontal framing perimeter for false ceiling works</li> <li>• Carry out installation of wall mount at specified levels to create a step false ceiling look</li> <li>• Carry out fixing of the ceiling mount as per specification over the specified level</li> <li>• Carry out fastening of plasterboard/gypsum board to the formed grid using appropriate tools</li> <li>• Carry out fastening of plasterboard at different levels as per specification for step ceiling works</li> <li>• provide control joints as per specification</li> <li>• Carry out finishing of the attached plasterboard using specified finishing material</li> <li>• Carry out fixing of cornices/moulding trims over the edges as per specification</li> <li>• provide cut out for utility services and for set out points and elevation as per design/layout drawings</li> <li>• For installation of plain and grid ceiling ,check and ensure actual construction against design dimensions</li> <li>• check the proposed ceiling module layout for inconsistencies in case of installation of plain and grid ceiling</li> <li>• For installation of plain and grid ceiling ,set out ceiling perimeter with the use of string lines and/or lasers as per applicability and install the perimeter detail</li> <li>• For installation of plain and grid ceiling , carry out installation of ceiling grid as per specification</li> <li>• Carry out fastening of gypsum board and place grid panels as per specification/drawing upon clearance from services department for installation of plain and grid ceiling</li> <li>• Carry out finishing of the attached plasterboard using specified finishing material</li> <li>• provide control joints as per specification for installation of plain and grid ceiling</li> <li>• In case of plain and grid ceiling ,add cornices/moulding trims over the edges as per specification</li> </ul>	



Sr. No.	Module	Key Learning Outcomes	Equipment Required
4	<p><b>Carry out installation of false ceiling on complex structures at complex location</b></p> <p><b>Theory Duration</b> (hh:mm) 32:00</p> <p><b>Practical Duration</b> (hh:mm) 96:00</p> <p><b>Corresponding NOS Code</b> CON/N1128</p>	<ul style="list-style-type: none"> <li>• provide cut out for utility services and for trap/Access door as per specification/drawing for plain and grid ceiling</li> </ul> <p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>• schematic drawings and sketches for False Ceiling and Dry wall Installation works</li> <li>• scope of work for False Ceiling and Dry wall Installation works</li> <li>• manufacturer's instructions for False Ceiling and Dry wall Installation including that for elements of frame and panels</li> <li>• method statement for False Ceiling and Dry wall Installation works</li> <li>• basic process of levelling</li> <li>• basic mathematical techniques associated with levelling</li> <li>• safe work method statements</li> <li>• levelling device types, characteristics, technical capabilities and limitations</li> <li>• different levelling instruments               <ul style="list-style-type: none"> <li>❖ a spirit level and straight edge</li> <li>❖ levelling with water technique</li> <li>❖ laser levelling devices</li> </ul> </li> <li>• processes for interpreting sketches</li> <li>• processes for setting out and transfer of levels</li> <li>• process of marking perimeter for false ceiling work</li> <li>• how to check for alignment, straightness and plumb</li> <li>• application and requirements for line, level and plumb in construction projects</li> <li>• Application of various tools and equipment required for fixing false ceiling including broad knives, electric screw guns, hand and power drills, handsaws, scaffold planks, t squares, taping knives, trestles, etc.</li> <li>• Various methods of storing and stacking gypsum board, plasterboard, fibre board</li> <li>• selection and use of appropriate materials including beads cement render, fibre cement sheets, finishing materials, plaster compounds, plasterboard, etc. for false ceiling and dry wall installation works</li> <li>• different type of false ceiling such as grid ceiling, gypsum board ceiling, fiber board ceiling, concealed ceiling, semi concealed ceiling</li> <li>• Various ornamental and designer ceilings</li> <li>• ceiling types including:- exposed grid, concealed grid, linear and open cell, metal firing, pan grid, other proprietary suspended ceilings</li> </ul>	<ol style="list-style-type: none"> <li>1. Measuring tape</li> <li>2. Scale</li> <li>3. Right angle</li> <li>4. Framing square</li> <li>5. Chalk line</li> <li>6. pencil</li> <li>7. Line dori</li> <li>8. Plumb bob</li> <li>9. Spirit level</li> <li>10. Laser Level</li> <li>11. Pliers</li> <li>12. Punch pliers</li> <li>13. Hammers</li> <li>14. Taping knife</li> <li>15. Sanding tool</li> <li>16. Hand circular saw</li> <li>17. Hack saw</li> <li>18. Jig saw</li> <li>19. Rake angle</li> <li>20. Screw driver set</li> <li>21. Screw gun</li> <li>22. Hammer Drill machine</li> <li>23. Rivet gun</li> <li>24. Metal cutter</li> <li>25. Silicon gun/caulk gun</li> <li>26. Stapler</li> <li>27. Clutch angle</li> <li>28. Utility knife</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• how to measure and mark the gypsum board for cutting</li> </ul> <p><b><u>Demonstration/ Practical (D/P): -</u></b></p> <ul style="list-style-type: none"> <li>• Interpret details from drawing and method statement for false Ceiling and Dry wall Installation works</li> <li>• Check to ensure ceiling module layout</li> <li>• Carry out setting out of points and elevation as per design/layout drawings for installation of designer ceilings and raked, sloped and curved ceilings.</li> <li>• Carry out checks for design dimensions against actual construction</li> <li>• Carry out setting out of ceiling perimeter with the use of string lines and/or lasers as per applicability for installation of designer ceilings and raked, sloped and curved ceilings.</li> <li>• Carry out installation of the perimeter detail as per specification</li> <li>• Carry out installation of ceiling grid as per specification for installation of designer ceilings and raked, sloped and curved ceilings.</li> <li>• Carry out fastening of gypsum board/place decorative grid panels as per specification/drawing</li> <li>• Carry out fastening of flexible gypsum board for curved ceiling as per specification/drawing</li> <li>• provide control joints as per specification</li> <li>• Carry out finishing of the attached plasterboard using specified finishing or texture paint as per applicability for designer ceiling</li> <li>• Carry out fixing of perforated plasterboard with framing members coinciding with non-perforated areas</li> <li>• Carry out installation of POP moulds/ceiling medallions as per applicability</li> <li>• Carry out installation of decorative cornices/moulding trims over the edges as per specification</li> <li>• provide cut out for utility services and fro trap/Access door as per specification/drawing</li> </ul>	
5	<p><b>Carry out installation of twin frame dry wall system, curved dry walls and wall partitions</b></p> <p><b>Theory Duration</b> (hh:mm) 36:00</p> <p><b>Practical Duration</b></p>	<p><b><u>Theory: -</u></b></p> <ul style="list-style-type: none"> <li>• schematic drawings and sketches for Dry wall Installation works</li> <li>• scope of work for Dry wall Installation works</li> <li>• manufacturer's instructions for Dry wall Installation</li> <li>• method statement for installation of various types of Dry walls</li> <li>• tools and equipment used for fixing wall partitions</li> </ul>	<ol style="list-style-type: none"> <li>1. Measuring tape</li> <li>2. Scale</li> <li>3. Right angle</li> <li>4. Framing square</li> <li>5. Chalk line</li> <li>6. pencil</li> <li>7. Line dori</li> <li>8. Plumb bob</li> <li>9. Spirit level</li> <li>10. Pliers</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
	(hh:mm) 76:00  <b>Corresponding NOS Code</b> CON/N1129	<ul style="list-style-type: none"> <li>• basic process of levelling</li> <li>• basic mathematical techniques associated with levelling</li> <li>• levelling device types, characteristics, technical capabilities and limitations</li> <li>• different levelling instruments</li> <li>• a spirit level and straight edge</li> <li>• levelling with water technique</li> <li>• laser levelling devices</li> <li>• processes for interpreting sketches</li> <li>• processes for setting out and transfer of levels</li> <li>• processes for checking for alignment, straightness and plumb</li> <li>• processes for levelling the floor before installing the floor frame</li> <li>• different types of joints to be used in frames including butt joint, etc</li> <li>• appropriate measurements and markings for cutting panels</li> <li>• method statement for installation of panels</li> <li>• processes for calculating area and layout of board to be installed</li> <li>• Use and importance of providing proper spacing between screws</li> <li>• processes for placing and fixing element perpendicular to the surface of panel</li> <li>• the importance of providing proper spacing between vertical joints of panels and partitions</li> <li>• correct positions of wall partition boards before fixing</li> <li>• processes for checking the line and plumb of fixed vertical sections of partitions</li> <li>• Various types of dry wall system like twin frame dry wall, curved dry wall.</li> <li>• Various types of wall partitions such as foldable wooden partition, plasterboard, gypsum board partition, glass wall partition etc. materials used and specifications</li> <li>• process of installations of hanging, movable and folding wall partitions</li> <li>• different frames, channels and studs used for fixing partitions</li> <li>• Process of fixing wooden and glass partitions</li> </ul> <p><b>Demonstration/ Practical (D/P): -</b></p> <ul style="list-style-type: none"> <li>• Interpret details from drawing and method statement for dry wall installation</li> <li>• Carry out setting out of points and elevation as per design/layout drawings</li> </ul>	11.Punch pliers 12.Hammers 13.Taping knife 14.Sanding tool 15.Hand circular saw 16.Hack saw 17.Jig saw 18.Rake angle 19.Screw driver set 20.Screw gun 21.Hammer Drill machine 22.Rivet gun 23.Metal cutter 24.Silicon gun/caulk gun 25.Stapler 26.Clutch angle 27.Utility knife

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Carry out checks for confirmation of design dimensions against actual construction</li> <li>• Carry out checks for confirmation the proposed wall module layout for consistencies</li> <li>• Carry out selection and use tools for dry wall partition installation works</li> </ul> <p><u>For twin wall</u></p> <ul style="list-style-type: none"> <li>• Carry out setting out of and marking of wall and ceiling for fixing channels with appropriate tools as per applicability</li> <li>• Carry out installation of the floor channels and ceiling channels as per specification</li> <li>• provide door and window cut outs as per applicability</li> <li>• Carry out fastening of twin floor and ceiling channels as per specification for twin wall dry wall system</li> <li>• Carry out fastening of channels for curved dry wall system as per specification</li> <li>• Carry out fastening of studs for any abutments as per specification</li> <li>• Carry out installation of curved horizontal members as per applicability</li> <li>• moisturize dry wall board with spray to install over a curved surface</li> <li>• Carry out fastening of dry wall using screws stating from one end and gradually proceeding towards free end</li> <li>• Carry out fastening of dry wall board with screws as per specification/drawing for twin wall dry wall system</li> <li>• carry out fastening of channels and board for T-junctions, door jamb and corners as per specification</li> <li>• provide control joints as per specification</li> <li>• Carry out filling of the cavity with insulation material as per applicability</li> <li>• Carry out finishing of the attached plasterboard using specified finishing or texture paint as per applicability</li> </ul> <p><u>For hanging movable and foldable wooden, plasterboard, gypsum board and glass wall partitions</u></p> <ul style="list-style-type: none"> <li>• 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</li> <li>• Carry out checks to ensure evenness of slab soffit before installing the ceiling frame</li> <li>• Carry out checks to panels are cut as per specified dimensions using correct tools and equipment</li> </ul>	

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>Carry out checks to ensure proper spacing between bottom end of panel and floor</li> <li>Carry out setting out of points and elevation as per design/layout drawings</li> <li>Carry out checks for design dimensions against actual construction</li> <li>Carry out checks for the proposed wall module layout for consistencies</li> <li>select and use tools for dry wall partition installation works</li> <li>Carry out fastening of floor and ceiling channels as per specification</li> <li>Carry out fixing of wall partitions as per specifications</li> <li>Carry out fixing of wall partitions for hanging partitions using vertically suspended bulk head system</li> <li>Carry out fastening of movable and foldable wall partition using roller screws and hinges panels for folding</li> <li>Carry out fixing of wooden and glass partition wall system as per applicability</li> </ul>	
32	<p><b>Work effectively in a team to deliver desired results at the workplace</b></p> <p><b>Theory Duration</b> (hh:mm) 16:00</p> <p><b>Practical Duration</b> (hh:mm) 32:00</p> <p><b>Corresponding NOS Code</b> CON/N8001</p>	<p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>Method of oral and written communication skills with co-workers, trade seniors while handling and carrying out visual checks on materials, , tools and equipment</li> <li>How to interpret scope of false ceiling and dry wall installation works, material/ tools handling by adhering to instructions or consulting with seniors</li> <li>Method of providing instruction to subordinates or reporting to seniors clearly and promptly</li> <li>Seek necessary support and complete assigned tasks within stipulated time duration</li> <li>Keep good relation and maintain well behaviour with co-workers</li> </ul> <p><b>Demonstration/ Practical (D/P) :-</b> 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"> <li>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.</li> <li>Handling of tools, equipment and materials for various types of False Ceiling and Dry wall Installation works including efficiently communicating with co-workers for desired requirement as per specification</li> </ul>	<ol style="list-style-type: none"> <li>Classroom having seating requirement for 30 people.</li> <li>Projector</li> <li>Toilet/Urinals (Separate for gents and Ladies)</li> <li>Blackboard</li> <li>Trade specific charts and other teaching aids</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>Carrying out installation of curved/sloped False Ceiling and Dry wall Installation works while working as a team to ensure optimum utilization of material and resources</li> <li>Carrying out False Ceiling and Dry wall Installation works utilizing the effort of co-workers.</li> <li>Undertaking visual checks to assess the quality of material and check line, level and alignments of work, check weep systems etc.</li> <li>Provide information to sub ordinates and seniors in case of change because of inadequacy of design</li> </ul>	
6	<p><b>Plan and organize work to meet expected outcomes</b></p> <p><b>Theory Duration</b> (hh:mm) 16:00</p> <p><b>Practical Duration</b> (hh:mm) 32:00</p> <p><b>Corresponding NOS Code</b> <b>CON/N8002</b></p>	<p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>To plan False Ceiling and Dry wall Installation activities within defined scope of work</li> <li>Basic concept of productivity, sequence of working and implementation of safety and organizational norms while working</li> <li>Upkeep, storing and stacking methods of tools, materials used for False Ceiling and Dry wall Installation</li> <li>Requisition of resources, reporting for requirement of resources orally and in written to concerned authority - (T/P)</li> </ul> <p><b>Demonstration/ Practical (D/P) :-</b> 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"> <li>Selection of materials, tools or devices for defined purpose in an optimum manner</li> <li>Handling/organizing various tools, material, fixtures and device for installation of specialised false ceiling for complex structures.</li> <li>Prioritize all works/ activities</li> <li>Planning installation of twin frame dry wall system, curved wall and wall partitions as per scope and schedule.</li> <li>Carrying out installation of false ceiling and dry wall installation by optimum utilization of material and resources</li> <li>Optimum use of resources while performing task</li> </ul>	<ol style="list-style-type: none"> <li>Classroom having seating requirement for 30 people.</li> <li>Projector</li> <li>Toilet/Urinals (Separate for gents and Ladies)</li> <li>Blackboard</li> <li>Trade specific charts and other teaching aids</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>Adherence to stipulated timelines for completion of false ceiling and dry wall installation activities</li> </ul>	
7	<p><b>Work according to personal health, safety and environment protocol at construction site</b></p> <p><b>Theory Duration</b> (hh:mm) 16:00</p> <p><b>Practical Duration</b> (hh:mm) 32:00</p> <p><b>Corresponding NOS Code</b> CON/N9001</p>	<p><b>Theory: -</b></p> <ul style="list-style-type: none"> <li>Types of hazards involved in construction sites</li> <li>Types of hazards involved in False Ceiling and Dry wall Installation works</li> <li>Reporting procedures in case of hazards and accidents</li> <li>Emergency response system and evacuation procedures</li> <li>Safe working practices in case of False Ceiling and Dry wall Installation work as per EHS guidelines</li> <li>Concept of: -               <ol style="list-style-type: none"> <li>First Aid process</li> <li>Use of fire extinguisher</li> <li>Classification of fires and fire extinguisher</li> <li>Safety drills</li> <li>Types and use of PPEs as per safety norms</li> </ol> </li> <li>Basic ergonomic principles</li> <li>Safe Disposal of waste ,harmful and hazardous materials</li> <li>Safety awareness programs like tool box talks, mock drills</li> <li>Handling of construction materials, tools and tackles</li> <li>Statutory compliance requirement related to working at height</li> </ul> <p><b>Demonstration/ Practical: -</b></p> <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"> <li>Selection of PPEs and use them appropriately as per working need of False Ceiling and Dry wall Installation operations, handling, storing, stacking and shifting of tools and equipment for False Ceiling and Dry wall Installation work</li> <li>Analysis of hazards involved in False Ceiling and Dry wall Installation work and taking necessary steps or informing to seniors.</li> <li>Identify hazards, risks, safety violations at construction sites and in False Ceiling and Dry wall Installation work</li> </ul>	<ol style="list-style-type: none"> <li>Safety Helmets</li> <li>Face shield</li> <li>Overalls</li> <li>Knee pads</li> <li>Safety shoes</li> <li>Safety belts</li> <li>Safety harness</li> <li>Safety Gloves</li> <li>Safety goggles</li> <li>Particle masks</li> <li>Ear Plugs</li> <li>Reflective jackets</li> <li>Fire Extinguisher</li> <li>Fire prevention kit</li> <li>First Aid box</li> <li>Safety tags</li> <li>Safety Notice board</li> </ol>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Demonstrate emergency and evacuation response procedures</li> <li>• Demonstrate safe work practices while performing False Ceiling and Dry wall Installation works</li> <li>• Identification of locations, situations/ circumstances, malpractices which can be hazardous for general or False Ceiling and Dry wall Installation work</li> <li>• Selection of fire extinguisher based on classification of fire, standard practice of storing &amp; stacking firefighting equipment/ materials at work locations</li> <li>• Disposal of waste materials as per their nature and effects on weather</li> </ul>	
	<p><b>Total Duration</b> <b>600:00</b></p> <p><b>Theory Duration</b> <b>180:00</b></p> <p><b>Practical Duration</b> <b>420:00</b></p>	<p><b><u>Unique Equipment Required:</u></b></p> <p><b><u>Classroom Requirement</u></b> Classroom of 30 students capacity, Black/White board, Projector/LED Monitor, Computer, Trade specific charts and other teaching aids</p> <p><b><u>Tools</u></b> Measuring tape, Scale, Right angle, Framing square, Chalk line, pencil, Line dori, Plumb bob, Spirit level, Laser level, Pliers, Punch pliers, Hammers, Taping knife, Sanding tool, Hand circular saw, Hack saw, Jig saw, Rake angle, Screw driver set, Screw gun, Hammer Drill machine, Rivet gun, Metal cutter, Silicon gun/caulk gun, Stapler, Clutch angle, Utility knife</p> <p><b><u>Safety instruments</u></b> Safety Helmet, Safety goggles, Safety shoes, Safety belt, Cotton gloves, Ear plugs, Reflective jackets, Dust mask, Fire Prevention kit, Barricade tape, Safety Tags</p>	

Grand Total Course Duration: **600 Hours, 0 Minutes**

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



## Trainer Prerequisites for Job role: “Chargehand False Ceiling and Dry wall Installer” mapped to Qualification Pack: “CON/Q1109, v1.0”

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “CON/Q1109”.
2	<b>Personal Attributes</b>	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	<b>Minimum Educational Qualifications</b>	ITI/12th
4a	<b>Domain Certification</b>	Trainer/Assessor-80% in each NOS of Qualification Pack “MEP/Q0102” or “MEP/Q0104” and Lead trainer/Lead Assessors- 90% in each NOS of Qualification Pack “MEP/Q0101” or “MEP/Q0103”
4b	<b>Platform Certification</b>	Trainer/Assessor-50% in each NOS of Qualification Pack “MEP/Q0101” or “MEP/Q0103”& 80% overall, Lead trainer/ Lead Assessors- 50% in each NOS of Qualification Pack “MEP/Q0101” or “MEP/Q0103”and overall 90%
5	<b>Experience</b>	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 <sup>th</sup> pass minimum eight years of field experience and preferably two years of teaching Experience.



## **CRITERIA FOR ASSESSMENT OF TRAINEES**

<b><u>Job Role</u></b>	Chargehand False Ceiling & Dry Wall Installer
<b><u>Qualification Pack</u></b>	CON/Q1109
<b><u>Sector Skill Council</u></b>	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	Marks Allocation		
			Out Of	Theory	Skills Practical
CON/N1126: Read and interpret drawing specifications and carry out layout marking for False ceiling and Dry wall installation works	PC1. read and interpret the details from architectural drawings relevant to false ceiling and dry wall installation	100	7	3	4
	PC2. read and understand the scope of work including type of false ceiling , brackets, secondary framing elements, boards, grids and for fixing hangers, grids and fixtures, etc.		7	3	4
	PC3. read and understand manufacturer’s specification regarding the elements of frame, panel ,dry wall and their installation		7	3	4
	PC4. read and understand method statement and shop drawings for installation		7	3	4
	PC5. ensure that board(gypsum, plaster, fiber board) is measured accurately as per specifications using correct tools		6	1.5	4.5
	PC6. check the surface for undulations and report any discrepancies to the superiors		6	1.5	4.5
	PC7. carry out field measurements for wall framing members on surface of structure		6	1.5	4.5
	PC8. ensure proper markings are done on gypsum board for cutting to the required dimensions		6	1.5	4.5
	PC9. check and ensure board is cut as per required specification		6	1.5	4.5
	PC10. check and ensure markings are done for ceiling brackets and perimeter as per specification		6	1.5	4.5
	PC11. measure and check to assess the ceiling for fixing of false ceiling		6	1.5	4.5
	PC12. notify superior in case of any deviation in levels for perimeter fixing		6	1.5	4.5
	PC13. confirm heights or levels to be transferred from sketches through instructions		6	1.5	4.5
	PC14. provide markings for cutouts in panels in false ceiling and dry wall partitions		6	1.5	4.5
	PC15. check that access equipments like work platforms and ladders are safely erected and in place		6	1.5	4.5
	PC16. maintain appropriate provisions for doors, windows, etc. as applicable to the false ceiling and dry wall installation		6	1.5	4.5
	<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>	
CON/N1127: Carry out	PC1. identify and select material for false ceiling as per specification and pattern detail	100	3	1	2

installation of specialized false ceiling for complex structures	PC2. calculate quantity of material required for false ceiling works	3	1	2
	PC3. check all tools and equipments for false ceiling work are provided at the workplace	3	1	2
	PC4. check material for false ceiling such as boards, grids for fixing hangers, grids and firings etc are stacked and aligned appropriately at the workplace	3	1	2
	PC5. check and ensure board is cut as per required specification	3	1	2
	PC6. check and ensure markings are done for ceiling brackets and perimeter as per specification	3	1	2
	PC7. measure and assess the ceiling for fixing of false ceiling	4	1.5	2.5
	PC8. check that access equipments like work platforms and ladders are safely erected and in place	4	1	3
	PC9. fix horizontal framing perimeter for false ceiling works	4	1	3
	PC10. install wall mount on walls at specified levels to create a step false ceiling look	4	1.5	2.5
	PC11. attach the ceiling mount as per specification over the specified level	4	1	3
	PC12. fasten plasterboard/gypsum board to the formed grid using appropriate tools	4	1	3
	PC13. fasten plasterboard at different levels as per specification for step ceiling works	4	1	3
	PC14. provide control joints as per specification	4	1.5	2.5
	PC15. finish the attached plasterboard using specified finishing material	4	1.5	2.5
	PC16. add cornices/moulding trims over the edges as per specification	4	1	3
	PC17. provide cut out for utility services and fro trap/access door as per specification/drawing	4	1	3
	PC18. set out points and elevation as per design/layout drawings	3	1	2
	PC19. check actual construction against design dimensions	3	1	2
	PC20. check the proposed ceiling module layout for inconsistencies	3	1	2
	PC21. set out ceiling perimeter with the use of string lines and/or lasers as per applicability	4	1	3
	PC22. install the perimeter detail	4	1	3
	PC23. install ceiling grid as per specification	4	1	3
	PC24. fasten gypsum board and place grid panels as per specification/drawing upon clearance from services department	4	1	3
	PC25. finish the attached plasterboard using specified finishing material	4	1.5	2.5

	PC26. provide control joints as per specification		4	1.5	2.5
	PC27. add cornices/moulding trims over the edges as per specification		4	1	3
	PC28. provide cut out for utility services and fro trap/access door as per specification/drawing		4	1	3
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>
CON/N1128: Carry out installation of false ceiling on complex structures at complex locations	PC1. set out points and elevation as per design/layout drawings	<b>100</b>	4	1	3
	PC2. check design dimensions against actual construction		4	1	3
	PC3. check the proposed ceiling module layout for inconsistencies		4	1	3
	PC4. set out ceiling perimeter with the use of string lines and/or lasers as per applicability		4	1	3
	PC5. install the perimeter detail		4	1	3
	PC6. install ceiling grid as per specification		4	1	3
	PC7. fasten gypsum board/ place decorative grid panels as per specification/drawing		5	2	3
	PC8. provide control joints as per specification		4	1.5	2.5
	PC9. finish the attached plasterboard using specified finishing or texture paint as per applicability for designer ceiling		5	2	3
	PC10. place perforated plasterboard with framing members coinciding with non-perforated areas		5	2	3
	PC11. install pop moulds/ceiling medallions as per applicability		5	2	3
	PC12. add decorative cornices/moulding trims over the edges as per specification		4	1	3
	PC13. provide cut out for utility services and fro trap/access door as per specification/drawing		4	1	3
	PC14. setting out points and elevation as per design/layout drawings		4	1	3
	PC15. check design dimensions against actual construction		4	1.5	2.5
	PC16. check the proposed ceiling module layout for inconsistencies		4	1	3
	PC17. set out ceiling perimeter with the use of string lines and/or lasers as per applicability		4	1	3
	PC18. install the perimeter detail and bulk head as per specification		4	1	3
	PC19. install ceiling grid for raked suspended flush jointed /curved ceiling as per applicability as per specification		4	1	3

	PC20. fasten flexible gypsum board for curved ceiling as per specification/drawing		4	1	3
	PC21. provide control joints as per specification		4	1.5	2.5
	PC22. finish the attached plasterboard using specified finishing as per applicability		4	1.5	2.5
	PC23. add decorative cornices/moulding trims over the edges as per specification		4	1	3
	PC24. provide cut out for utility services and fro trap/access door as per specification/drawing		4	1	3
	<b>Total</b>		<b>100</b>	<b>30</b>	<b>70</b>
CON/N1129: Carry out installation of twin frame dry wall system, curved dry walls and wall partitions	PC1. select materials as per specifications	<b>100</b>	3	1	2
	PC2. set out points and elevation as per design/layout drawings		3	1	2
	PC3. check design dimensions against actual construction		3	1	2
	PC4. check the proposed wall module layout for inconsistencies		3	1	2
	PC5. select and use tools for dry wall partition installation works		3	1	2
	PC6. set out and mark wall and ceiling for fixing channels with appropriate tools as per applicability		3	1	2
	PC7. install the floor channels and ceiling channels as per specification		3	1	2
	PC8. provide door and window cut outs as per applicability		3	1	2
	PC9. fasten twin floor and ceiling channels as per specification for twin wall dry wall system		3	0.5	2.5
	PC10. fasten channels for curved dry wall system as per specification		3	0.5	2.5
	PC11. fasten studs for any abutments as per specification		3	0.5	2.5
	PC12. install curved horizontal members as per applicability		3	1	2
	PC13. moisturize dry wall board with spray to install over a curved surface		3	1	2
	PC14. fasten dry wall using screws stating from one end and gradually proceeding towards free end		3	0.5	2.5
	PC15. fasten dry wall board with screws as per specification/drawing for twin wall dry wall system		3	0.5	2.5
	PC16. carry out fastening of channels and board for T-junctions, door jamb and corners as per specification		3	0.5	2.5
	PC17. provide control joints as per specification		3	1	2
	PC18. fill the cavity with insulation material as per applicability		3	1	2
	PC19. finish the attached plasterboard using specified finishing or texture paint as per applicability		3	1	2

	PC20. 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		4	1	3
	PC21. check to ensure evenness of slab soffit before installing the ceiling frame		3	1	2
	PC22. ensure panels are cut as per specified dimensions using correct tools and equipments		3	1	2
	PC23. ensure proper spacing between bottom end of panel and floor		3	1	2
	PC24. follow method statement for installation of horizontal and vertical panels		3	1	2
	PC25. setting out points and elevation as per design/layout drawings		3	1	2
	PC26. check design dimensions against actual construction		3	1	2
	PC27. check the proposed wall module layout for inconsistencies		3	1	2
	PC28. select and use tools for dry wall partition installation works		3	1	2
	PC29. Fasten floor and ceiling channels as per specification		3	1	2
	PC 30. fix wall partitions as per specifications		3	1	2
	PC 31. fix wall partitions for hanging partitions using vertically suspended bulk head system		3	1	2
	PC 32. fasten movable and foldable wall partition using roller screws and hinges panels for folding		3	1	2
	PC33. fix wooden and glass partition wall system as per applicability		3	1	2
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>
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	<b>100</b>	10	3	7
	PC2. inform co-workers and superiors about any kind of deviations from work		5	1.5	3.5
	PC3. address the problems effectively and report if required to immediate supervisor appropriately		5	1.5	3.5
	PC4. receive instructions clearly from superiors and respond effectively on same		5	1.5	3.5
	PC5. communicate to team members/subordinates for appropriate work technique and method		5	1.5	3.5
	PC6. seek clarification and advice as per requirement and applicability		10	3	7
	PC7. hand over the required material, tools tackles, equipment and work fronts timely to interfacing teams		30	9	21
	PC8. work together with co-workers in a synchronized manner		30	9	21
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>
CON/N8002:	PC1. understand clearly the targets and timelines set by superiors	<b>100</b>	10	3	7

Plan and organize work to meet expected outcomes	PC2. plan activities as per schedule and sequence		10	3	7
	PC3. provide guidance to the subordinates to obtain desired outcome		10	3	7
	PC4. plan housekeeping activities prior to and post completion of work		10	3	7
	PC5. list and arrange required resources prior to commencement of work		10	3	7
	PC6. select and employ correct tools, tackles and equipment for completion of desired work		10	3	7
	PC7. complete the work with allocated resources		10	3	7
	PC8. engage allocated manpower in an appropriate manner		10	3	7
	PC9. use resources in an optimum manner to avoid any unnecessary wastage		5	1.5	3.5
	PC10. employ tools, tackles and equipment with care to avoid damage to the same		5	1.5	3.5
	PC11. organize work output, materials used, tools and tackles deployed,		5	1.5	3.5
	PC12. processes adopted to be in line with the specified standards and instructions		5	1.5	3.5
		<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>
CON/N9001: Work according to personal health, safety and environment protocol at construction site	PC1. identify and report any hazards, risks or breaches in site safety to the appropriate authority	<b>100</b>	5	1.5	3.5
	PC2. follow emergency and evacuation procedures in case of accidents, fires, natural calamities		5	1.5	3.5
	PC3. follow recommended safe practices in handling construction materials, including chemical and hazardous material whenever applicable		10	3	7
	PC4. participate in safety awareness programs like Tool Box Talks, safety demonstrations, mock drills, conducted at site		5	1.5	3.5
	PC5. identify near miss , unsafe condition and unsafe act		5	1.5	3.5
	PC6. use appropriate Personal Protective Equipment (PPE) as per work requirements including: <ul style="list-style-type: none"> <li>• Head Protection (Helmets)</li> <li>• Ear protection</li> <li>• Fall Protection</li> <li>• Foot Protection</li> <li>• Face and Eye Protection</li> <li>• Hand and Body Protection</li> <li>• Respiratory Protection (if required)</li> </ul>		10	3	7
	PC7. handle all required tools, tackles , materials & equipment safely		5	1.5	3.5
	PC8. follow safe disposal of waste, harmful and hazardous materials as per EHS guidelines		5	1.5	3.5
	PC9. install and apply properly all safety equipment as instructed		15	4.5	10.5





PC10. follow safety protocol and practices as laid down by site EHS department		15	4.5	10.5
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	3	7
PC12. apply ergonomic principles wherever required		10	3	7
	<b>Total</b>	<b>100</b>	<b>30</b>	<b>70</b>