



RPL

RECOGNITION OF PRIOR LEARNING



**Arunachal Pradesh Building & Other's Construction workers welfare board
(APB&OCWWB)
ESS Sector, Itanagar-791110**

PARTICIPANT HANDOUT ASSISTANT SHUTTERING CARPENTER

Prepared By

M/S P.K. Enterprises

G-Sector ,Naharlagun , P.O/PS- Naharlagun , Papum Pare
Arunachal Pradesh

In Consortium with

india[̂]vision

M/S Indivision Realty & Infrastructure Pvt Ltd

A-25, Second Floor, Sector 3, NOIDA – 201301

Assistant Shuttering Carpenter

Role Description

Individuals in this position work as semi-skilled category tradesmen and perform tasks under instructions and close supervision of Shuttering Carpenter Level-3 as an Assistant Shuttering Carpenter. He is expected to make, assemble, erect and dismantle conventional / system formwork for all types of in situ and precast RCC work, reading drawings, setting and layout. He should ensure trade specific compliance of environment, health, safety aspects and should engage and supervise the Helper Shuttering Carpenter under him for all relevant tasks.

What RPL Means?

Recognition of prior learning (RPL) : It is an assessment process that involves assessment of an individual's relevant prior learning (including formal, informal and non-formal learning) to determine the credit outcomes of an individual candidate knowhow.

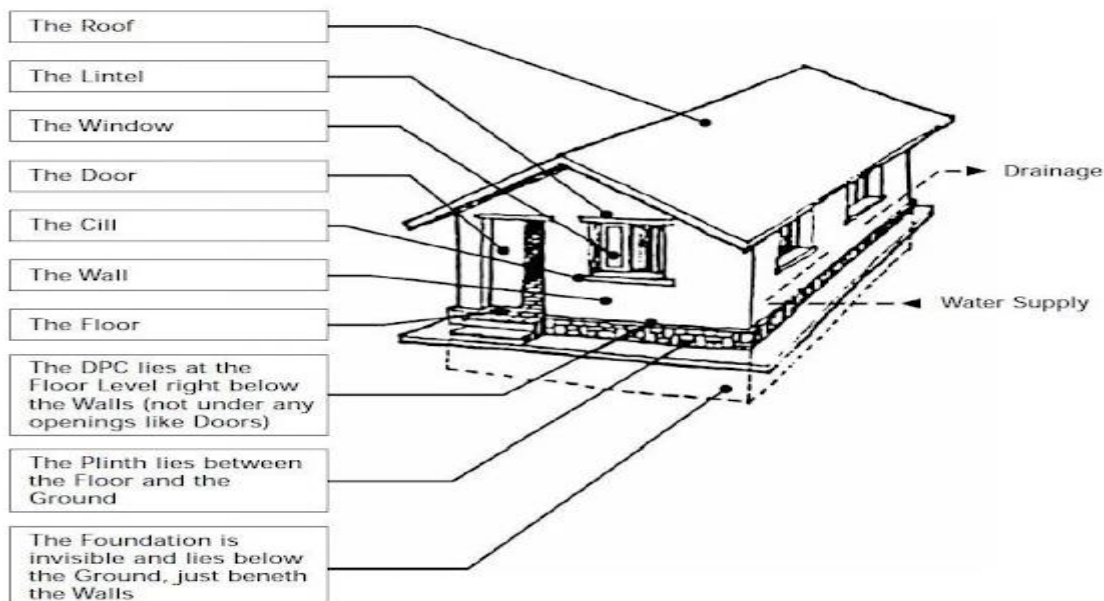
Why RPL ?

- Because Construction workers do not have a certificate which tells us about their skill level
- Because construction workers do not get paid according to skill level

Applicable National Occupational Standards (NOS)

- CON/N0101: Erect and dismantle temporary scaffold of 3.6 meter height
- CON/N0312: Use and maintain tools and equipments relevant to shuttering carpentry
- CON/N0313: Assist in making wooden shutter used in shuttering carpentry
- CON/N0314: Assist in Assembling & dismantling conventional & system formwork for R.C.C structures
- CON/N8001: Work effectively in a team to deliver desired results at the workplace
- CON/N9001: Work according to personal health, safety and environment protocol at construction site

List and describe parts and functions of a building



Foundation & Plinth
Lintel
Surfaces/ Finishes

Damp Proof Course (DPC)
Cill
Drainage

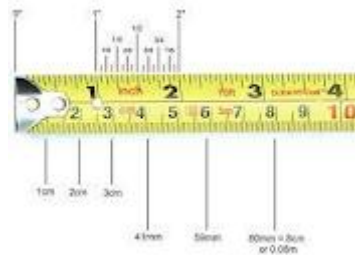
Floor & Wall
Stair
Water Supply

Door & Window
Roof
Electrical Supply

Tools and materials used in construction

Tools

- | | | | |
|---------------|------------------|--------------------------|----------------|
| Claw Hammer | Ball Pin Hammer | Handsaw | Tenon saw |
| Jack Planner | Crowbar | Farmer Chisel | ScrewDriver |
| Triangle file | Flat File | Hacksaw Frame with blade | Power Tool |
| Plumb Bob | Water level tube | Tri-Square | Measuring Tape |



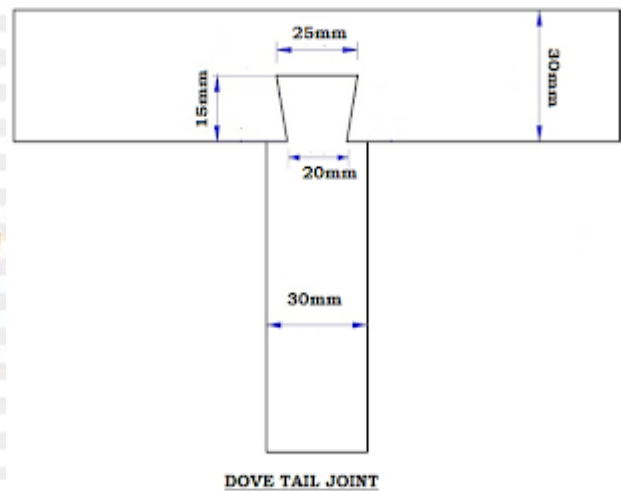
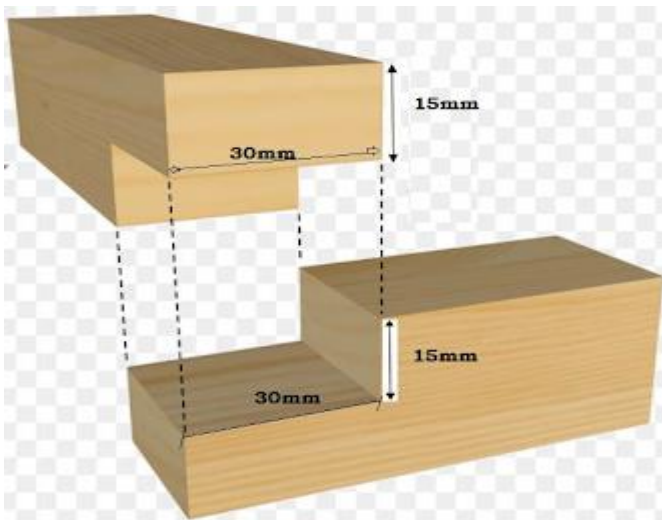
Material

- | | | | |
|---------------|-----------------------|-------|-------|
| Plywood | Battens | Nails | Props |
| wooden Planks | Scaffolding materials | Chalk | |

Joints

Following joints as shown in fig by cutting, sizing and finishing rough surface by planing machine.

Provided battens (38mm X 38mm) , Finished batten size- 30mmX 30mm.

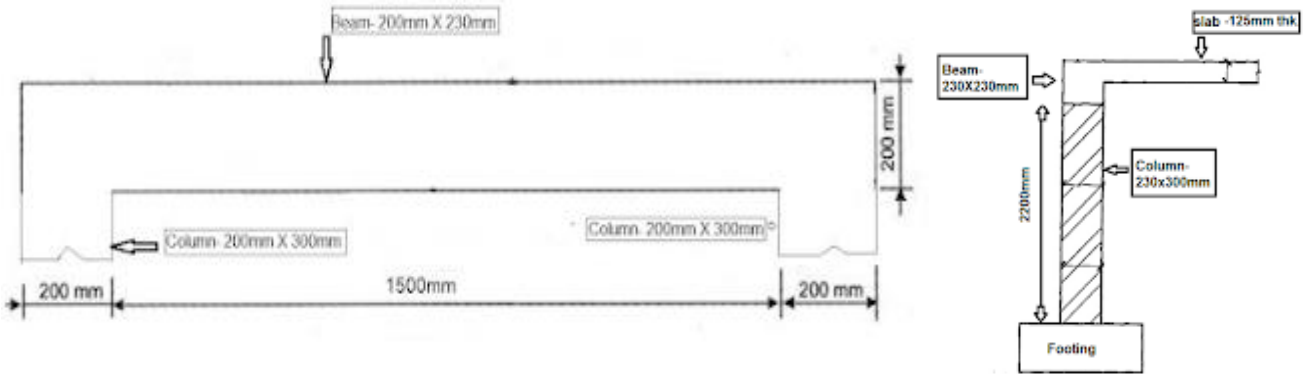


Formwork

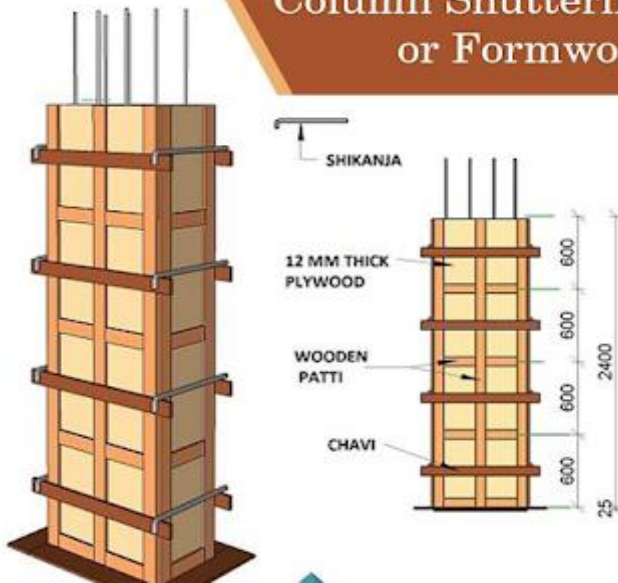


Formwork for column as given in drawing-BY keeping the alignment and vertically within tolerance limits.

NOTE- carryout installation on the levelled ground.

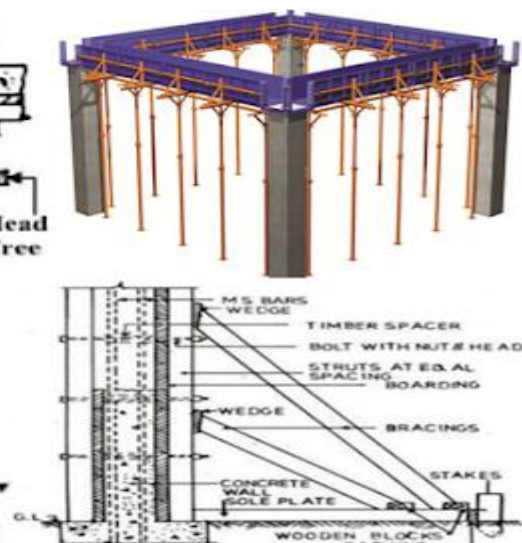
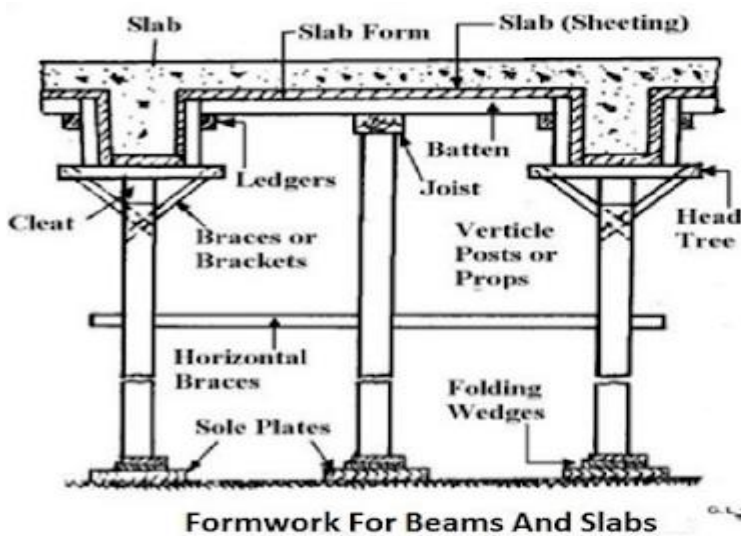


Column Shuttering or Formwork



Column Shuttering

Beam Shuttering



PERSONAL PROTECTIVE EQUIPMENT

*Safety Goggles**Safety Mask**Safety Helmet**Safety Shoes**Safety Gloves**Safety Belt*

Safety Requirement

- Safe access and working platform.
- Lifeline of suitable material like manila rope of 16mm diameter for anchoring the belt.
- Warning for people below through display of caution board and cordoning off the area if necessary
- Work at height should be performed in good daylight, preferably when strong winds do not exist.
- Anchor safety belt while working at height should be ISI marked (BIS approved).



Comply with Industry, Regulatory and Organizational Requirements

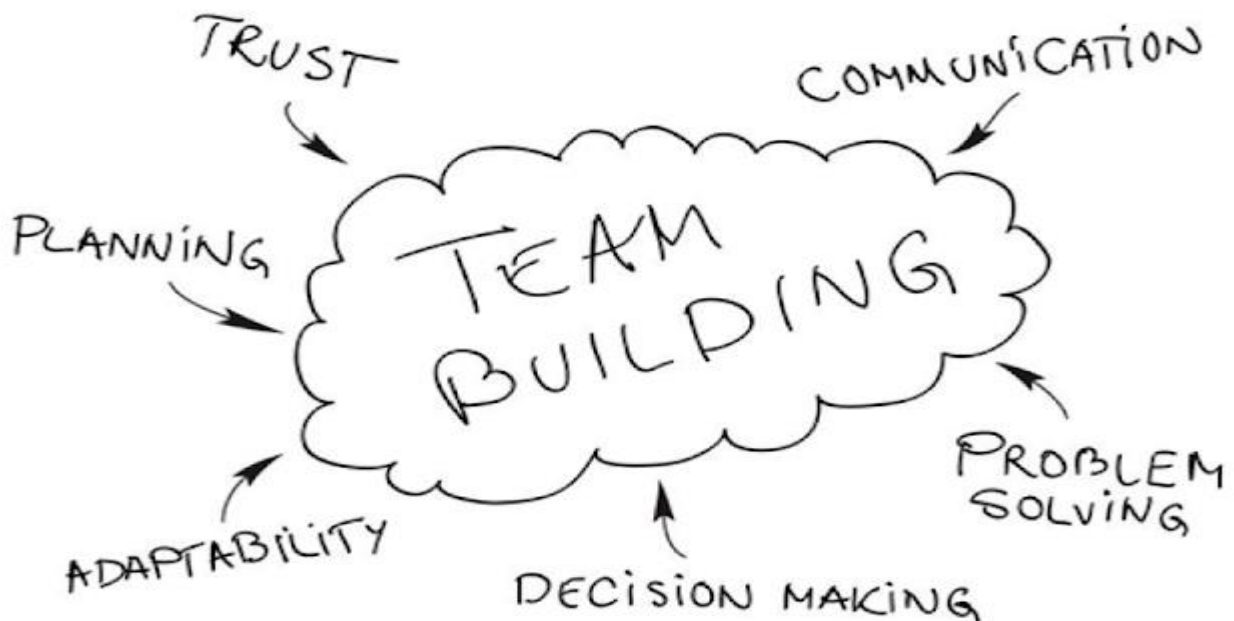
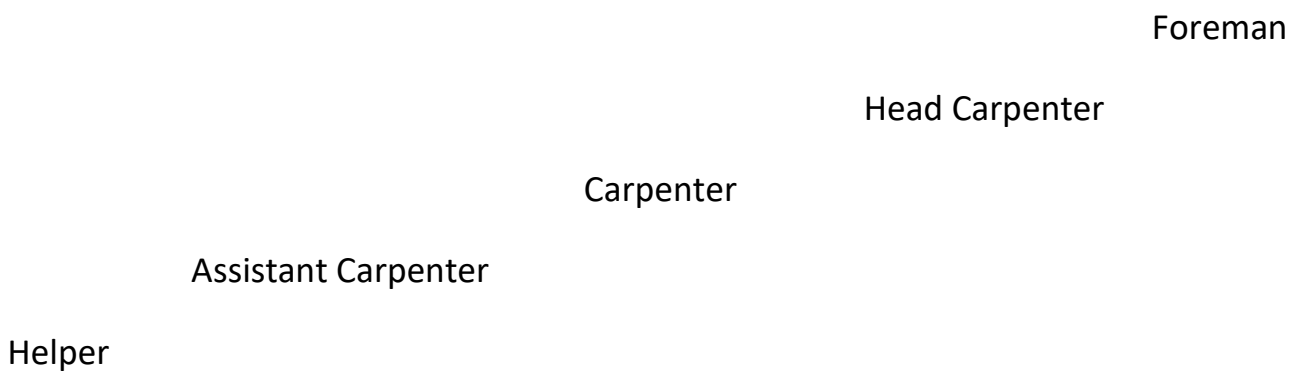
It is very important for all the employees to comply with industry standards and be aware of various rules, regulations, policies and procedures followed by the company. Apart from educating themselves, it is also important to maintain good relationships with peers, seniors, juniors and all employees. One should be able to make the right decision which is good for the greater good of the company.

Team Work

This is all about being an effective worker.

- Safe worker
- Worker who is responsible for the quality of their work
- Worker that communicates well and works as a team member, sharing information.
- Worker that accepts change
- Worker that plans their daily work Planning is essential regardless of your job role
- Responsibilities because as a worker you are part of a group or team.
- This might be a small team of two, or a large team such as a company or an organisation.
- It is very rare for someone to work completely alone.
- If we bond together and support each other.
- If we make true the spirit of teamwork.
- Regardless of our differences, we can rise to meet our challenges.
- If we are aware of the feeling of sharing.
- LIFE WILL BE EASIER AND THE PASSING OF YEARS MORE FULFILLING.

Future possible progression and career development provisions on completion of the course



Do's and Don'ts during Construction

what to do:

- Erect formwork should be achieved in accordance with requirements.

- Provide bracing to ensure stability of formwork. Strengthen formwork subject to overstressing by construction loads.
- Align joints and make watertight. Keep form joints to a minimum.
- Obtain approval before framing openings in structural members that are not indicated on drawings.
- Provide ¾ inch chamfer at all external corners
- Never allow child labour on site. You will land in violence of law and may land in jail.
- When do scaffolding the ground surface must be hard and level.
- Work area must be cleaned after completing the work.
- Maintain the surface level and straight line or in the correct position during work.
- To check proper strong Props before start concreting.
- Before starting the machine power tools, the blade and cover must be checked.
- Always wear suitable PPE (Personal Protective Equipment) before work starts.

Don'ts:

- Don't use damaged formwork. It affects the concrete resulting in the honeycomb..
- Do not throw the bricks from the height to avoid breakage.
- Do not pour concrete on dry surfaces.
- Nails, waste wood, iron, nut bolts, oil are not thrown at the workplace.
- Do not throw the shuttering board from the top.
- Don't ignore supervisor instructions.
- Don't forget the shuttering oil apply on formwork before saria and concrete.
- Don't forget the safety protocols to avoid mishappening.

Useful Notes:

- 1 Bag of Cement = 50 Kg
- 1 Cubic Meter of Cement = 28.8 Bags
- Grades of Cement = 33,43,53 (N/mm²)
- Standard size of Plywood = 8 Feet X 4 Feet
- Standard size of measuring box for concrete = 1' X 1' X 1.25' (1.25 Cuft)
- 1 Yard = 3 Feet
- 1 Meter = 3.28 feet
- 1 Inch = 2.54 CM
- 1 Feet = 305 MM
- 1 Kilogram = 1000 Gram
- Area Calculate = Square
- Volume Calculate = Cubic
- Length measured in = Linear
- Liquid measured in = Liter
- Ply Measured in = Square
- Sand & Aggregate measured in = Volume and Weight
- Cement Measured in = Bags and Weight
- Nails measured in = KG

Covid-19 health and safety protocols

Coronavirus health and safety tips



Wash your hands often



Use hand sanitizer



Wear a mask



Don't touch your face



Ministry of Health & Family Welfare
Government of India

Help us to help you

NOVEL CORONAVIRUS (COVID-19)

Protective measures against Coronavirus



A distance of at least 1 meter is necessary to ensure safety for all



Wash your hands with soap and water regularly



If soap and water is not available, use hand sanitizer with at least 60% alcohol



Wash hands before touching eyes, nose and mouth



Throw used tissues into closed bins immediately after use



Cover your nose and mouth with handkerchief/tissue while sneezing and coughing



Avoid mass gathering and crowded places

If you are experiencing symptoms like fever, cough or difficulty in breathing, please call the state helpline number or 24x7 helpline numbers of Ministry of Health and Family Welfare, Government of India and follow the instructions.



THANKS FOR PARTICIPATING IN THE TRAINING PROGRAM

Skill India
कौशल भारत - कुशल भारत



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