



RPL



RECOGNITION OF PRIOR LEARNING



Assistant Mason

Introduction to Indian Construction Industry

The Indian construction industry employs over 30 million people and creates assets worth over ₹ 200 billion. It contributes more than 5 per cent to the nation's GDP and 78 per cent to the gross capital formation. Thereafter, it increased to 48 per cent in 1993-94 and stood at 44 per cent in 1999–2000.

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.

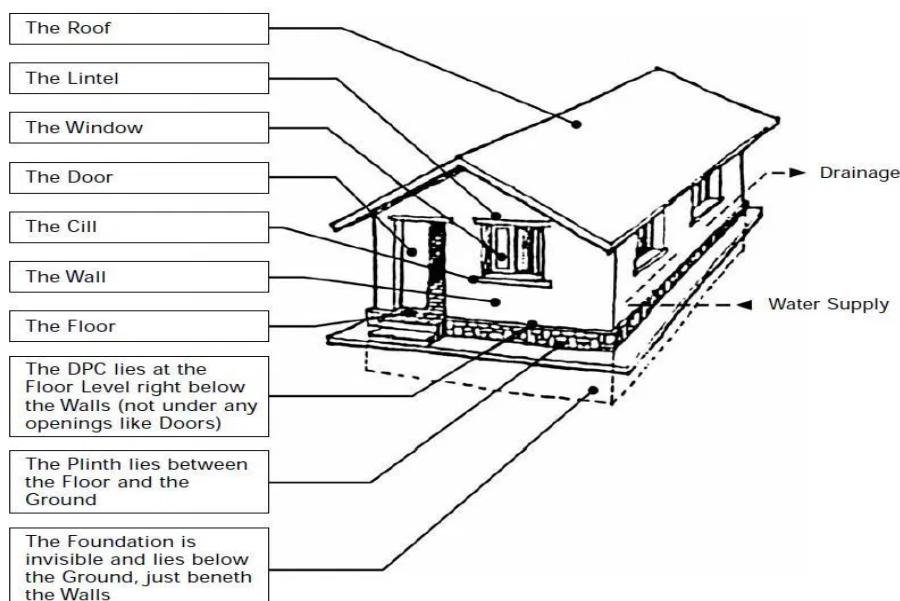
Why RPL ?

- 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/N0105: Handle and use hand and power tools related to masonry work
- CON/N0106: Assist in tiling, stone laying and concrete masonry works
- CON/N0107: Assist in brick/block work including fixing doors and windows and plastering works
- 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



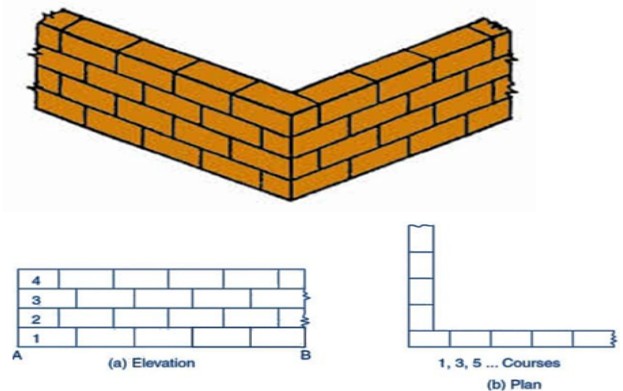
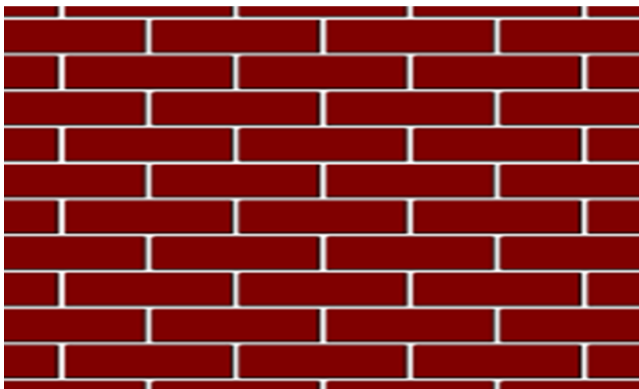
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|------------------------|----------------------------|-----------------------|------------------|-----------|
| 1. Foundation & Plinth | 2. Damp Proof Course (DPC) | 3. Floor & Wall | 4. Door & Window | 5. Lintel |
| 6. Stair | 7. Roof | 8. Surfaces/ Finishes | | |
| 9. Drainage | 10. Water Supply | 11. Electrical Supply | | |

Tools and materials used in construction

Tools		Material	
String	Spade	Mud & Clay	Cement
Try Square	Water Drum	Sand	Concrete
Plumb Bobs	Water level Pipe	Aggregate	Glass
Measuring Tape	Mixer	Bricks	Paint
Spirit level	Measurement Box	Block	Ceramics
Square trowel	Straight Edge	Structural Steel	Marble Stone
Masons hammer	Masonry saw	R/F Steel	Granite Stone
Chisel & hammer	Brush (Wire & Hair)	Wood	Kota Stone
Hacking tools		Plastics	
		Aluminum	

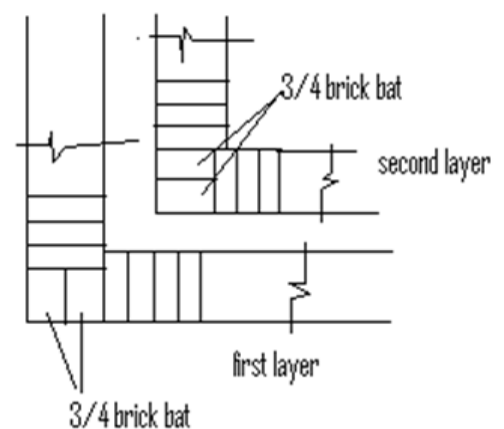
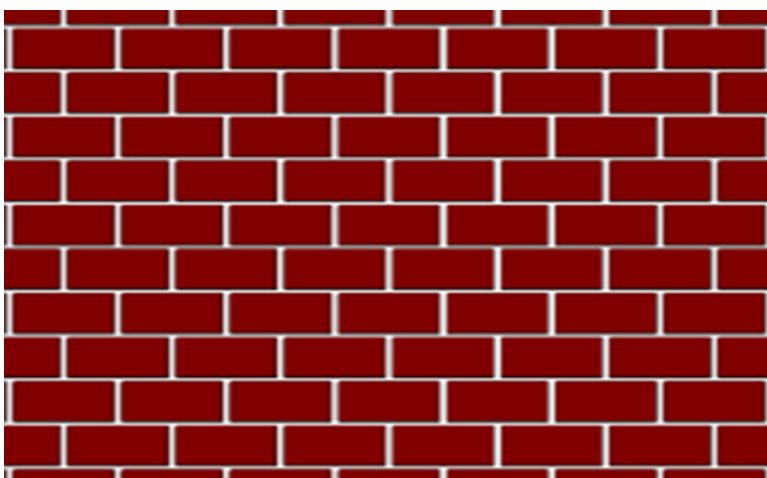
Stretcher /Common Bond

Only used for walls of half brick thickness (partition wall) , this is the only practical bond which can be used on a wall of this thickness



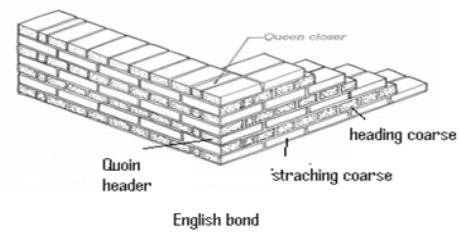
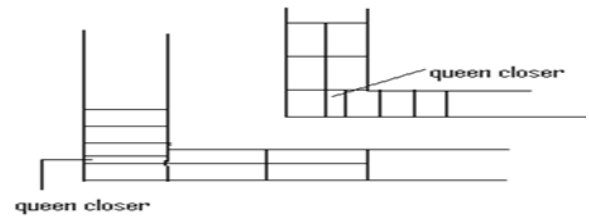
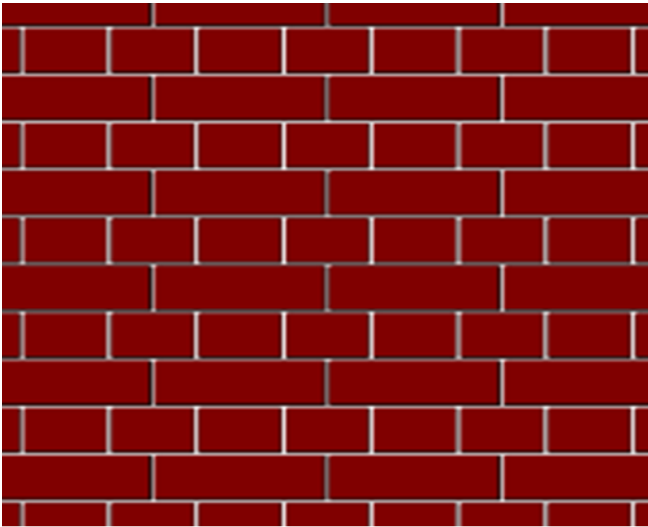
Header Bond

This is a very common bond for load bearing walls. It is composed of header bricks, set in rows that are offset $\frac{3}{4}$ of a brick as a quoin brick in alternating courses, which produces a solid easy to lay bond.



English Bond

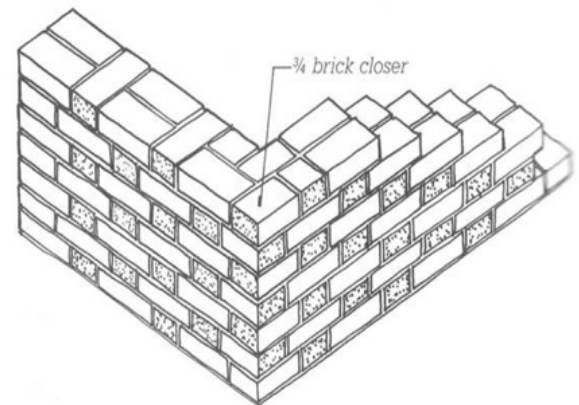
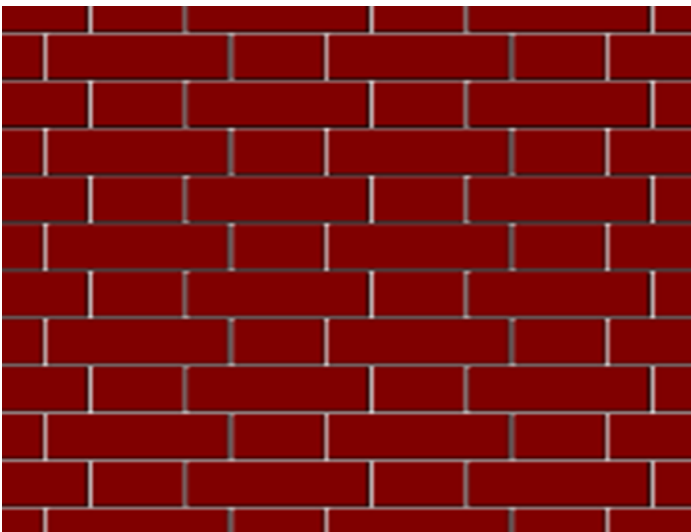
This is the strongest bond, this bond maximizes the strength of the wall pattern on the face of the wall shown in alternative courses of headers & stretchers. There is a chance of penetration of damp through transverse joints. Queen closers are inserted next to headers to produce overlap.



Flemish Bond

This is not as strong as English bond; the decorative pattern on the face of the wall shows alternate headers & stretchers in each with the headers centered under and over stretchers in adjacent courses.

In this bond a queen closer is provided after every queen header in the alternate courses to break the continuity of vertical joints. Brickwork that appears as Flemish bond from both the front and rear is Double Flemish bond.



Flemish Bond alternates headers and stretchers in each course

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).

Fire extinguisher sign	Emergency exit sign	No smoking sign	First aid sign	No open flame sign

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

Foreman

Head Mason

General Mason

Assistant Mason

Helper

