

CONSTRUCTION SKILLS TRAINING INSTITUTE

BASIC COURSE SYLLABUS

FORM WORK CARPENTRY



**CONSTRUCTION GROUP
LARSEN & TOUBRO LIMITED**

SYLLABUS FOR
FORM WORK CARPENTRY TRAINING

CONTENTS

1. Introduction to L&T / ECCG
2. Introduction to the Trade
3. Introduction to Trade Glossary
4. Introduction to Tools & Equipment
5. Documentation
6. Materials
7. Testing
8. Safety
9. Practice Modules
10. Introduction to Trade on Job Site
11. Overall Revision
12. Final Testing

SYLLABUS FOR
FORM WORK CARPENTRY TRAINING

Duration at Skills Training Institute (Spread in three months)	: 600 Hrs
1. Introduction to L&T / ECCG	: 3 Hrs
2. Introduction to the Trade	: 3 Hrs
3. Introduction to Trade Glossary	: 6 Hrs
4. Introduction to Tools & Equipment	: 12 Hrs
5. Documentation	: 24 Hrs
• Sketches	
• Drawings	
• Information hand outs	
• Method statements	
• Log sheets	
6. Materials	: 16 Hrs
• Timber	
• Plywood	
• System formwork components	
• Consumables	
• Pipe and couplers	
7. Testing	: 16 Hrs
• Setting out	
• Leveling	
• Plainness	
• Dimensions	
• Line	

8.	Safety	24 Hrs
	<ul style="list-style-type: none"> • First Aid • Personal safety • Handling • Working at heights • System formwork build-in-safety 	
9.	Practice Modules	348 Hrs
	Conventional	
	F1. Sizing of Timbers	12 Hrs
	<ul style="list-style-type: none"> • Classification of timbers • Identification of timbers • Selection of timbers • Properties of timber • Identification of small tools • Maintaining of tools • Safe usage of tools including power machines • Reading of simple drawings and sketches • Understanding of tolerance • House keeping • Site tidiness 	
	F2. Cutting Plywood	8 Hrs
	<ul style="list-style-type: none"> • Classification of plywood • Properties of plywood • Use of shuttering plywood • Use of commercial plywood • Safe usage of cutting tools including power machines • Understanding of tolerance • Safety • Site tidiness 	

-
- **F3. Timber Jointing** : 12 Hrs
 - Dovetail joints
 - Mortice & Tenon joints
 - Half lap joints

 - **F4. Make Conv. Shutter** : 24 Hrs
 - Making of conv. beam shutters
 - Making of conv. straight wall shutters
 - Making of conv. column shutters
 - Making of conv. beam bottom shutter
 - Repairing of conv. wooden shutters
 - Safety
 - Site tidiness

 - System form work Doka

 - **F5. Identify Doka Components** : 24 Hrs
 - Introduction of Doka form work system
 - Doka components and its applications
 - Maintenance and stacking of Doka components
 - Safety
 - Site tidiness

 - **F6. Make Type Shutter** : 16 Hrs
 - Making of Doka column shutter
 - Making of Doka wall shutter
 - Safety
 - Site Tidiness

- Conventional
- **F7. Make Curved Shutter** : 16 Hrs
 - Making of wooden curved shutters
 - Making of wooden haunch shutters
 - Making of odd shape shutters
 - Safety
 - Site Tidiness
- System form work Doka
- **F8. Make curved Shutter** : 24 Hrs
 - Making of Doka curved shutters
 - Making of Doka haunch shutters
 - Making of Doka odd shape shutters
 - Safety
 - Site Tidiness
 - **F9. Erect & Dismantle Staging** : 12 Hrs
 - Erecting & dismantling of conventional pipe staging
 - Erecting & dismantling of wooden staging
- System form work Doka
- **F10. Erect & Dismantle Staging** : 16 Hrs
 - Erecting & dismantling of 1.525m x 1.525 m plane size Doka heavy duty towers
 - Erecting & dismantling of Doka 1.525m x 2.250m
 - Plane size staging
 - Erecting & dismantling of light duty tower for masonry

- **F11. Erect & Dismantle Stair Tower** : 8 Hrs
 - Erecting & dismantling of Doka stair tower

Conventional
- **F12. Assemble & Dismantle Foundation Form** : 16 Hrs
 - Assemble & dismantling of conv. Shutters for foundation

System form work Doka
- **F13. Assemble & Dismantle Foundation Form** : 8 Hrs
 - Assemble & dismantling of L&T shutters for foundation

Conventional
- **F14. Assemble & Dismantle Column Form** : 8 Hrs
 - Assemble & dismantling of conv. Shutter for column

System form work Doka
- **F15. Assemble & Dismantle Column Form** : 16 Hrs
 - Assemble & dismantling of Doka Shutter for column

Conventional
- **F16. Assemble & Dismantle Wall Formwork** : 16 Hrs
 - Assemble & dismantling of conv. Shutter for wall formwork

- System form work Doka
- **F17. Assemble & Dismantle**
 - Wall Form : 16 Hrs
 - Assemble & dismantling of Doka Shutter for straight wall
- Conventional
- **F18. Assemble & Dismantle**
 - Beam Form : 19 Hrs
 - Assemble & dismantling of conv. Shutter for plinth beams and tie beams
- System form work Doka
- **F19. Assemble & Dismantle**
 - Beam Form : 16 Hrs
 - Assemble & dismantling of Doka beam Shutter for tie beams
- Conventional
- **F20. Assemble & Dismantle**
 - Beam & Slab Form : 28 Hrs
 - Assemble & dismantling of conv. shutter for beams & slabs
- System form work Doka
- **F21. Assemble & Dismantle**
 - Beam & Slab Form : 28 Hrs
 - Assemble & dismantling of Doka shutter for Beams & slabs

- **F22. Erecting & Dismantling L&T access Scaffold** : **8 Hrs**
 - Erecting & Dismantling L&T access Scaffold

- 10. Introduction to Trade on Job Site** : **64 Hrs**

- 11. Revision** : **60 Hrs**

- 12. Final Testing & Evaluation** : **24 Hrs**