



STRUCTURAL WATERPROOFING TECHNICIAN'S COURSE SYLLABUS

A one day course followed by a multiple choice examination paper. The course aims to enhance the knowledge and understanding of experienced technicians as well as provide a good foundation for those embarking on a new career in structural waterproofing. All Property Care Association training courses are delivered by industry experts recognised for their knowledge, experience and ability to deliver an effective and informative training experience.

1. INTRODUCTION

- 1.1. General introduction to the structural waterproofing industry
- 1.2. Background and source of a waterproofing design (BS8102:2009)
- 1.3. On site performance and potential consequences

2. WATER IN THE GROUND

- 2.1. Natural and perched water tables
- 2.2. Soil types and ground conditions
- 2.3. Sources of water entering a structure

3. DAMP IN BASEMENTS

- 3.1. Sources of damp in basements – rising damp, condensation
- 3.2. Identifying the source and type of damp in basements
- 3.3. Dealing with damp in basements

4. BUILDING CONSTRUCTION

- 4.1. Identifying the component parts of a building and their function/effect on water movement
- 4.2. Effect of water pressure on a structure

5. TYPE A (BARRIER) FORMS OF WATERPROOFING

- 5.1. Materials used
 - 5.1.1. Bonded sheet membranes
 - 5.1.2. Bentonite clay membrane
 - 5.1.3. Liquid applied membranes
 - 5.1.4. Mastic asphalt membranes
 - 5.1.5. Cementitious crystallisation active systems
 - 5.1.6. Cement Based Systems
- 5.2. Preparation, application and 'aftercare'

6. TYPE B (INTEGRAL) FORMS OF WATERPROOFING

- 6.1. Materials used
 - 6.1.1. Piled wall construction
 - 6.1.2. Reinforced Concrete construction
 - 6.1.3. Construction Joints
 - 6.1.4. Movement joints
 - 6.1.5. Concrete Admixtures
 - 6.1.6. Waterbars and hydrophilic strips
 - 6.1.7. Crack Management
- 6.2 Preparation, application and 'aftercare'



7. TYPE C (DRAINED CAVITY) FORMS OF WATERPROOFING

- 7.1. Materials used
 - 7.1.1. Cavity Drain Membranes (CDM)
 - 7.1.2. Water management strategies
 - 7.1.3. Drainage Channels
 - 7.1.4. Sumps and Pumps
 - 7.1.5. Back-up systems
- 7.2. Preparation, application and 'aftercare'

8. SPECIFIC DETAILS

- 8.1. Joint details
- 8.2. Dealing with other materials – timber, steel etc
- 8.3. Service penetrations

9. WATERPROOFING PRACTICE ON SITE

- 9.1. Looking after materials on site
- 9.2. Identifying problems and issues on site
- 9.3. Responsibility and role of operatives/installers

10. EXAMINATION

- 10.1 A one hour multiple choice examination