

SPECIALIST APPLIED-SKILLS PROGRAMME (SAP)

STRUCTURAL WATERPROOFING

(Below Ground)





Property Care Association

SPECIALIST APPLIED-SKILLS PROGRAMME (SAP)

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Section	Content	Page(s)
1.0	Introduction	
2.0	Aims and Objectives	
3.0	Course set up	
4.0	Assessment	
5.0	Collecting Evidence	
6.0	Training Module Summary	
7.0	Level 2 N/SVQ Diploma	
8.0	Training Modules	
9.0	Glossary of Terms	
10.0	Key Parties	

Section 1.0 – Introduction:

Structural Waterproofing is a specialised activity, within the construction industry, to create waterproofed below ground habitable environments. The creation of these structures is carried out by specialist contractors such as those who are members of the Property Care Association (PCA).

To carry out their work PCA specialist contractors utilise the latest materials, products and techniques, many of which were developed by PCA manufacturing members. A PCA specialist contractor's work will vary from applying one of a number of waterproofing systems to an existing or constructed structure to constructing full basement projects incorporating waterproofing systems.

There is a history of damp proofing specialists, contractors, ground workers and new entrants to the sector being trained on an ad hoc basis by employers providing 'on the job' training interspersed with some supplier product training. The PCA SAP has been designed to provide a formal, structured programme of training covering every aspect of structural waterproofing of buildings over a two-year period resulting in the achievement of a Level 2 N/SVQ Diploma in Sub-Structure Work Occupations (Structural Waterproofing). The PCA SAP will ensure that a new entrant is able to understand the hazards and safe working practices within the (Structural Waterproofing) Construction industry and, on completion of the training, operate to industry standards of competence.

The SAP is delivered in modules based on the N/SVQ Level 2 structure for Sub-Structure Work Occupations (Structural Waterproofing) with a mix of formal instruction off-site and supervised on the job training. The off-site training sessions are provided by PCA in partnership with several chosen training providers at locations around the UK. They are not continuous but spread out over the two-year programme to allow the new entrant to gain experience on site and reach a level of competency in one module before progressing onto the next.

The on-site training is carried out during normal working hours under the supervision of a designated Training Supervisor identified by the employer. The new entrant will also receive several visits from an approved N/SVQ assessor during the two years to assess his progress in terms of the N/SVQ.

All treatment procedures covered in the PCA SAP are in accordance with the latest editions of the PCA Code of Practice for Waterproofing of Structures below Ground, PCA Best Practice Guidance Notes, relevant British Standards and Health and Safety Executive (HSE) requirements.

Due to the nature of the work it is considered that the preferred minimum age for suitable entrants will be 18 years of age* upwards thus there is thought to be no requirement for 'Key Skills' inclusion.

*Where the person is under the age of 18 a Young Person's Risk Assessment is to be carried out by both the training centre and the employer.

Section 2.0 - Aims & Objectives:

This training scheme is for new entrants into the Structural Waterproofing Sector of the Construction Industry. It is the intention of the training scheme to develop each individual to a competency level acceptable to the sector. The SAP is designed to be delivered in a modularised manner by a mix of formal instruction "off-the-job" training, followed by supervised "on-the-job" training at employer level with an end assessment.

It can take account of any distant learning processes involving workbooks as well as elearning methodology, along with the flexibility of day or part day release, evening classes, or a permutation of several of these.

This 'on the job' supervision will be conducted by a training supervisor and there will be a candidate record book, or a form of recording agreed with the sector, to evidence training received in Safety, Knowledge & Understanding, and Practical competences.

The learner will gain further experience through "off-the-job" training sessions in every aspect of the industry, but the scheme provides flexibility through the "on-thejob" training elements to suit the employer's core business requirements whilst delivering the N/SVQ Level 2 within the 2-year learning period.

The course contents are designed to ensure that the learner is able to understand the hazards & the safe working practices within this specialised industry and, upon completion of training, the learner will be able to operate any necessary equipment safely and carry out the required work tasks to industry standards of competence.

The course days may not be consecutive, which will allow for a variety of site situations where the use of different types of remedial treatment works can be completed over different days on different sites.

Section 3.0 - Course set up:

Ratio of Trainer to Learners:

- Practical elements 1: 4 (workshop)
- Practical elements 1: 2 (on site)
- Classroom elements 1:8

Each learner will have to demonstrate competence of each module via assessment and professional discussion; logging results in workbooks or other industry approved portfolio formats.

Tutor Profile:

The role of the tutor is crucial to the success of the SAP and as such approval from PCA will be required prior to delivery.

A tutor must have:

- A minimum of five years proven history spent working within the Structural Waterproofing Sector or able to provide evidence of recognised up skilling (e.g. Train the Trainer).
- Proven competence in the design and delivery of training courses in structural waterproofing related construction topics and good presentational skills.
- Ideally hold the PCA Certificated Surveyor in Structural Waterproofing (CSSW) qualification.

Assessor Profile:

• An approved VQ Assessor with proven expertise within the structural waterproofing related industry.

Training Supervisor:

To mentor the new entrant and supervise their on-site training and assessment for the N/SVQ, it is necessary for the employer to nominate an individual within the company to act as Training Supervisor. The Training Supervisor will have a minimum of 5 years sector experience; ideally hold Level 2 N/SVQ Diploma in Sub-Structure Work Occupations (Structural Waterproofing) and hold the relevant CSCS card.

Most formal instruction within the modules will be followed by non-consecutive days of supervised on-site training and module assessments conducted by the Training Supervisor. The training provider will ensure that suitable instruction and advice is made available to the Training Supervisor to ensure quality and consistency throughout the scheme.

The Training Supervisor will support the new entrant in collating, recording and signing off evidence of the new entrant's training in their Training Logbook as follows:

- Read the contents of the Training Logbook and understand what the new entrant has to achieve for each unit.
- Agree with the new entrant and the employer which jobs will provide the best opportunities for the new entrant to obtain the necessary evidence.
- Observe how the new entrant carries out particular activities and check the finished work against requirements.
- Record each observed activity with the date and initial the column.
- Sign off the activities observed.
- Discuss observations with the new entrant and give guidance, where necessary, on any improvements that can be made.
- Discuss the new entrant's progress when requested with visiting assessor(s) etc.

Section 4.0 – Assessment:

Assessment will occur at a number of points during the course of the PCA SAP.

The new entrant will be required to complete a Knowledge Check at the end of each off-site training session to demonstrate that they have understood the training undertaken. This will generally constitute a basic multiple-choice Question and Answer (Q&A) assessment.

There will also be a minimum of four N/SVQ assessment points during the two years. There may be a requirement for additional N/SVQ assessment visits for a number of reasons (e.g. illness or remedial training). These assessment points are designed to assess the learners understanding of training previously undertaken as part of the programme and enable monitoring of the new entrant's progress.

	Month Point during Programme		
1.	6 - 7	Completion of module *	
2.	11 - 12	Completion of module *	
3.	14 - 15	Completion of module *	
4.	20 - 24	Final sign off	

The Assessor will co-ordinate and undertake the above assessment visits on site. All visits will assess whether the training has been effective and is being practised safely and correctly. Training Logbooks will be checked and feedback provided to the new entrant and the Training Supervisor as appropriate.

Please note that visit 3 will include a check of the N/SVQ requirements and the drawing up of an action plan for the completion of the new entrant's individual N/SVQ Portfolio.

It is intended that these assessment points will be supported and underpinned by regular contact with both the Assessor and a representative from the PCA to monitor the new entrant's progress.

Section 5.0 - Collecting evidence

Learners are required to build a portfolio of evidence of work that they have completed, or assessments that they have undertaken, which together will provide sufficient evidence to prove their competence.

The portfolio should include:

- Records of work tasks that the learner has completed relevant to the VQ requirements plans, work records, testimonials, photographs and practical tests.
- Records of knowledge assessments and tests.

Sources of evidence:

Evidence which contributes to proof of competence may come from a number of sources including:

- Observations of the learner's practical performance by the training supervisor in the workplace, or at an assessment centre which could include work procedures and sequences, in addition to the completed job.
- Oral or written questioning records of oral or written questions as well as assignments that the learner has undertaken on their own.
- Certificated previous achievement where a learner has previous certificated achievement in competences that are appropriate towards the N/SVQ Level 2. They may be put forward for accreditation against the requirements and taken into account provided that:
- The assessor is satisfied about the authenticity of the evidence and the conditions under which it was collected.
- The assessor is satisfied that the competences covered by the evidence are current, and that the learner is still capable of the performances covered by the evidence.

Provision and Conduct of Assessments:

Assessments will be conducted in accordance with the Awarding Organisations provisions of the National Vocational Qualification (N/SVQ) structure, the main requirements of which are:

- Assessments are subject to internal verification and a Quality Adviser Service in line with QCA N/SVQ Code of Practice 2006 paragraphs 48 56 and ENTO V1.
- The dates and times of practical assessments are as agreed between the assessor, learner and employer.

Section 6.0 - Training Modules Summary

The training modules in this scheme have been developed to introduce the learner to the occupational competencies required for the various materials, equipment and processes used within the industry.

The modules focus on the practical skills and underpinning knowledge that will enhance the awareness of safety, security and approved procedures for carrying out structural waterproofing (below ground) works.

Module	Subject	Off-site instruction	On-site training and assessment	Timetable
M1	Induction			
1.1	General Housekeeping	0.25hrs	-	Week1 Day1
1.2	New Entrant Scheme Registration and N/SVQ induction, Employment Rights and Responsibilities	2.5hrs	-	Week1 Day1
1.3	Issue workbooks / Portfolio Building / Assessments	0.25hrs	-	Week1 Day1
1.4	Introduction to CSCS	0.25hrs	-	Week1 Day1
M2	Health & Safety			
2.1	2.1 Legislation		-	Week1 Day1
2.2	2.2 Health & Safety at Work		-	Week1 Day1
2.3	Accidents in the work place	1hr	-	Week1 Day1
2.4	General hazards on site	1hr	-	Week1 Day1
2.5	Working at Heights	1hr	-	Week1 Day1
2.6	Working in Confined Spaces	1 hr	-	Week1 Day1
2.7	Fire Prevention	0.5hr	-	Week1 Day1
2.8	Personal Protective Equipment	1hr	-	Week1 Day1
2.9	Asbestos Awareness	1 day	-	Week1 Day2
2.10	2.10 First Aid		-	Week1 Day3
М3	Preliminaries & Sector Knowledge			
3.1	Background to Structural Waterproofing – PCA I day Technicians Course	1 day	20 days	Week1 Day4

	Documentation, Drawings, Risk Assessments and			Week1
3.2	Method Statements (RAMS)	½ day	-	Day5
3.3	Site Compliance	1 hour	-	Week1
				Day5 Week1
3.4	Site Delivery Checks	0.5 hour	1 day	Day5
3.5	Site off Load and Storage	0.5 hour	1 day	Week1 Day5
3.6	6 Manual Handling		-	Week1 Day5
3.7	.7 Protection of Materials and Tools		2 days	Week1 Day5
3.8	Installing, constructing and maintaining work area protection and Safety Equipment	1 day	5 days	Week2 Day6
3.9	Operate powered units, tools or pedestrian plant, machinery or equipment	½ day	5 days	Week2 Day7
3.10	Inspect and complete user maintenance on plant and machinery	½ day	5 days	Week2 Day7
3.11	Small Tools	½ day	2 days	Week2 Day8
3.12	Set out secondary dimensional work control	½ day	5 days	Week2 Day8
M4	Practical & Knowledge on Site			
4.1	Prepare surfaces for (all forms of) structural waterproofing	1 day	10 days	Week2 Day9
4.2	Prepare joints in structures including 'dry-pack' underpinned areas and apply primary waterproofing	1 day	5 days	Week2 Day10
4.3	Apply cementitious coatings, multi-coat renders, crystallisation active materials with/without primers	2 days	10 days	Week3 Days11-12
4.4	Apply liquid, multi-pack, resin & Mastic Asphalt systems with/without primers	1.5 days	10 days	Week3 Days13-14
4.5	Install sheet membrane systems with/without primers	1.5 days	10 days	Week3 Days14-15
4.6	Install cavity drainage membrane systems	2 days	15 days	Week4 Days16-17
4.7	Install drains, sumps and pumping ancillaries	2 days	10 days	Week4 Days18-19
4.8	Prepare and Install gas membranes	1 day	10 days*	Week4 Day20
4.9	Prepare for and apply concrete	2 days	20 days*	Week5 Days21-22
4.10	Dismantling and removing temporary work area protection and safety equipment	1 day	5 days*	Week5 Day23
4.11	Final Testing and sign off	1 day	-	Week5 Day24
	TOTAL DAYS	24	Min. 116	

*Where applicable to employer

Section 7 - Level 2 N/SVQ Diploma in Sub-Structure Work Occupations (Structural Waterproofing)

PCA SAP – Level 2 N/SVQ Diploma in Sub-Structure Work Occupations (Structural Waterproofing) - Pathway 13:

Credit value (Pathway 13): 46

Minimum credit to be achieved at, or above, the level of the qualification: 46

Credit value (Option route - pathway 26) Basement Construction - Structural Waterproofing – (credit value 78)

This structure has been recommended by employers and stakeholders from the above occupational area for organisations to form the basis of academic capability and competence outcomes. Qualifications with a competence outcome at the above level must have units derived from the following National Occupational Standards (NOS) and consist of the mandatory groups as stated for the individual option route.

CITB unit reference – Unit Title – Credits per Unit – Applicable N/SVQ level

	Mandatory units for all pathways – (credit value 10)					
Unit ref	Title Credits N/		N/SVQ Level			
VR641	Conform to general workplace health, safety and welfare					
VR642	Conform to productive work practices	3	2			
VR643	VR643 Move, handle and store resources		2			
Ma	andatory units for pathway 13 (Structural Waterproofing)	– (credit value 3	29)			
VR491 v2	Prepare surfaces for structural waterproofing	11	2			
VR492 v2	Carrying out structural waterproofing	18	2			
Option I	Routes for pathway 13 (Structural Waterproofing) (min. c	edit value 7) – (One unit			
VR360 v4	Install, maintain and remove work area protection and safety equipment	10	2			
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment		2			
VR401 v2			2			
VR657 V2	Inspect and complete user maintenance on plant or 8 machinery		2			

Mandatory units for pathway 25 OPTION (Basement Construction – Installation of Gas Membranes) –					
	(credit value 100)				
VR612 v2	Prepare to install gas membranes	15	2		
VR613 v2	Install gas membranes	19	2		
Mandat	ory units for pathway 26 (Basement Construction - Stru (credit value 78)	ctural Waterpro	ofing)		
VR491 v2	Prepare surfaces for structural waterproofing	11	2		
VZ VR492 v2	Carrying out structural waterproofing	18	2		
V2 VR762 v1	Working on basement construction projects 44		2		
VI VR763 V1	Install, construct, maintain, dismantle and remove temporary works	22	2		
	pathway 26 (Basement Construction - Structural Water unit	rproofing) (credi	t value 7) – One		
VR360 v4	Install, maintain and remove work area protection and safety equipment	10	2		
VR400 v2	Operate powered units, tools or pedestrian plant, machinery or equipment72		2		
VR401 v2	Set out secondary dimensional work control72		2		
VR657 V2	Inspect and complete user maintenance on plant or machinery 8 2		2		

				QCF	Units		
Module	Module Title	Man	datory Unit	s - all		ory Units 1way 13	Options
No.		VR641	pathways VR642	VR643	VR491 V2	VR492 v2	
1.1	General Housekeeping	1	1	~			
1.2	New Entrant Scheme Registration and N/SVQ induction, Employment Rights and Responsibilities	~	1	~			
1.3	Issue workbooks / portfolio Building / Assessments	✓	1	\checkmark			
1.4	Introduction to CSCS	1	\checkmark				
2.1	Legislation	1	1	✓	1		
2.2	Health & Safety at Work	1	1	\checkmark	\checkmark	\checkmark	
2.3	Accidents in the workplace	1	1	~	~	\checkmark	
2.4	General hazards on site	1	1	~	\checkmark	\checkmark	
2.5	Working at Heights	1	1	~	✓	1	
2.6	Working in Confined Spaces	1	1	~	✓	1	
2.7	Fire Prevention	1	1	1	1	\checkmark	
2.8	Personal Protective Equipment	1	1	1	1	\checkmark	
2.9	Asbestos Awareness	1	1	1	1		
2.10	First Aid	\checkmark	1	\checkmark	\checkmark	\checkmark	
3.1	Sector background to Structural Waterproofing – Technicians Course	1	1	✓	✓	1	

Cross Reference to N/SVQ Diploma – Pathway 13

	Documentation, Drawings,						
3.2	Risk Assessments and Method Statements (RAMS)		~		~	1	
3.3	Site Compliance	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
3.4	Site Delivery Checks		1	\checkmark		1	
3.5	Site off load and storage	1	\checkmark	\checkmark		1	
3.6	Manual Handling	1	1	~		1	
3.7	Protection of Materials and Tools		~	~	1	1	
3.8	Installing, constructing and maintaining work area protection and Safety Equipment	~	~		\checkmark	~	VR360 v4
3.9	Operate powered units, tools or pedestrian plant, machinery or equipment	1	1		√	1	VR400 v2
3.10	Inspect and complete user maintenance on plant and machinery	1	✓		1	1	VR657 v2
3.11	Small Tools	\checkmark	~		\checkmark	\checkmark	
3.12	Set out secondary dimensional work control		~		\checkmark	1	VR401 v2
4.1	Prepare surfaces for (all forms of) structural waterproofing		\checkmark	✓	\checkmark	1	
4.2	Prepare joints in structures including 'dry-pack' underpinned areas and apply primary waterproofing		~	~	~	~	
4.3	Apply cementitious coatings, multi-coat renders, crystallisation active materials with/without primers		~	~	1	1	
4.4	Apply liquid, multi-pack, resin & Mastic Asphalt systems with/without primers		1	1	1	1	
4.5	Install sheet membrane systems with/without primers		~	~	\checkmark	1	

4.6	Install cavity drainage membrane systems		1	1	1	✓	
4.7	Install drains, sumps and pumping ancillaries		1	~	1	~	
4.8	Prepare and install gas membranes	~	1	\$	1	1	VR612v 2 VR613v 2
4.9	Prepare for and apply concrete		1	\checkmark	1	1	VR762 v1
4.10	Dismantling and removing temporary work area protection and safety equipment		1	\$	1	~	VR360 v4 VR763 v2
4.11	Final testing and Sign Off	\checkmark	\checkmark	\checkmark		\checkmark	

PCA Specialist Applied-skills Programme

Level 2 N/SVQ Diploma in Sub-Structure Work Occupations (Structural Waterproofing)

Sectio	n 8.0 Training Modules	
	Ile M1 – New Entrant Scheme Registration &	N/SVQ Induction
	nodule outlines the overall PCA SAP and informs t ng journey to qualification.	he learners of what is to be expected in their
Ref	Practical	Knowledge
1.1	General Housekeeping:	Learners to be made aware of:
	Inform learners of the housekeeping information / requirements.	Agenda or running order.
	• Issue any agenda, timetables, site maps as applicable / required.	• Fire/emergency exit and assembly points.
		• Fire drill/alarm if expected.
		Predicted breaks and timing.
		Toilet locations.
		Areas out of bounds/restricted access.
		• Location of any practical training areas.
1.2	VQ Registration/Checks:	Learners to be made aware of:
	• Issue forms for completion by Learners.	The SAP and how it works
	Check completed forms from Learners	• What registration to Qualifications means to them.
	Offer support to completion.	• What qualification it applies too.
		The assessment processes.
1.3	Learner Training Logs, Workbooks, Portfolio Building & Assessment.	Learners to be made aware of:
	• Issue to the new entrant the required documentation including the Training Logbook, Workbooks and N/SVQ Portfolio etc.	• The N/SVQ process and the importance of collating relevant evidence
		• The roles and responsibilities of the key parties involved in the programme including the N/SVQ
		• The purpose of the logs / workbooks.
		How to complete them.
		• How to build a portfolio.
		• Suitable content for evidence.
1.4	Introduction to CSCS	Learners to be made aware of:
	• Explain the whole arrangements for CSCS cards and the reasoning behind them.	• The reasons for skill cards.
	• The purpose of the touch screen test.	• What CSCS is and stands for.

Level 2 N/SVQ Diploma in Sub-Structu Occupations (Structural Waterproofin	
an application submitted for a red CSC	
card. To apply for the CSCS card, the r	
entrant will need to pass the touch-scr	reen
CSCS Health & Safety Test (operative).	
recommended that the new entrant re	
current edition of the CSCS Health & S Test Questions booklet and/or uses th	
Rom which is available for practice. Pi	
for the CSCS Health & Safety Test is th	
responsibility of the new entrant and	his
employer.	
	When to apply.
	Health & Safety touch screen test (if not
	previously taken)

This general view of Health and Safety is to underpin the relevance of safe working applicable to the installation of Structural Waterproofing and the associated dangers of building site workplace. The following Health & Safety matters will be discussed with the candidate and where required a competent Health & Safety Instructor will deliver training to ensure that the candidate has been fully trained and is updated with current legislations.

Ref	Practical	Knowledge
2.1	Legislation	Understand the need and reasons for legislation to safeguard both Employers as well as Employees:
		Health and Safety at Work Act
		Understand Employer and Employee responsibility
		 Management of Health and Safety at Work Regulations
		• Control of Substances Hazardous to Health Regulations
		Asbestos Regulations (see 2.9)
		Confined Spaces Regulation
		Working at Height Regulation (see 2.5)
2.2	Health & Safety responsibilities	Develop an understanding of Health & Safety with reference to the following areas:
		• Protection of the Public.
		Risk Assessment & Communication.
		• Role of Health & Safety Executive (HSE).
		• Contractors and the self-employed.
		 Vital co-operation duties between contractors and duty holders.

		• Co-operation duties for workers, manager and supervisors.
		• Construction Design and Management (CDM) Regulations 2015
2.3	Accidents in the Work Place	Understand how accident reporting enables a reduction in repeat incidents and prevention of future accidents. With reference, also to the following:
		Reporting Accidents/ Near misses (RIDDOR)
		Accident Prevention.
		• Working Procedures & Safety Rules.
		• First Aid & Welfare Arrangements.
		Caring for Casualties
		Limiting injury and or damage
2.4	General Hazards on Site	Develop an understanding of how to identify hazards on site and control measures which need to be implemented to prevent and reduce the risk of the hazard with particular reference to:
	The legal obligations to protect themselves, colleagues, other trades on site and members of the public from injury and the work area from unauthorised access	• Control of Substances Hazardous to Health. (COSHH)
		Product Hazard labels
		• The correct range of warning signs that should be available.
	Barriers and Signage:	• When and where to deploy warning signs.
	As required and dictated by site circumstances select and erect correct barriers and signage to working area to warn others and prevent access from unauthorised persons.	• When and where to deploy temporary barriers and warning tapes to section work areas
		Electricity & Portable Tools.
		Pedestrian & Vehicle Segregation.
		Loading and Unloading.
		Site Traffic including Fork Lift Trucks
		• Overhead and under floor dangers.
		Manual Handing
		Risk Assessment and Method Statement (RAMS)
2.5	Working at Heights	Develop an understanding of the Risk of Working both at height and in deep structures and be able to identify the control measures to eliminate risk and manage the controls with particular attention to:

	Understand the special dangers of working at height and deep excavations.	Falls from Heights.Typical Risk Control Measures.
		 Scaffold & Towers. PASMA Certification. Ladders & Trestles (short duration). Leading Edges & Openings. Basement Works. Fall Arrest Systems. Protection of others.
		Learners need to be aware of:
		 Working at Height Regulations 2005 It is the scaffold users/hirers responsibility to ensure that all scaffolding has been inspected as follows:
		 Following installation - before first use At an interval of no more than every 7 days thereafter
	Scaffolding:	• Following any circumstances liable to jeopardise the safety of the installation <i>e.g.</i> high winds.
	• Check that the type of scaffold supplied is suitable for the type of work being carried out.	• Scafftags and inspection by a competent person.
	• Tower scaffolds must comply with the standard required for all types of scaffolds, <i>e.g.</i> double guardrails, toe boards, bracing and access ladder.	• All scaffolding inspections should be carried out by an appropriately certificated person.
	• Hand-rails, full working platform, access (ladder or tower), all to be checked prior to use.	• All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
	• Attend a recognised PASMA course.	 Know that anyone using Mobile Elevated Work Platforms (MEWPs) must be certificated.
2.6	Working in Confined Spaces	Understand the risks associated with working in a confined space and the measures that should be in place before doing so:
		 Definition of a confined space Assessment of the task Assessment of the working environment Can the task be performed another way? Assessment of the working materials and tools The suitability of those carrying out the task Arrangements for emergency rescue

	I	Capabilities of rescuers
		Certification required
2.7		Understand the principle of the Fire Risk and
2.,	Fire Prevention	control measures that should be used to prevent Fire on Construction sites with reference to:
2.8		 The Fire Plan. Dealing with Fires. Evacuating your Workplace in an Emergency. The 3 Things Needed to Start a Fire. Fire Fighting Equipment. When not to tackle a Fire. Understand why we use PPE and Develop practical understanding of how PPE can reduced
	Personal Protective Equipment (PPE)	the risk of injury when used correctly with particular reference to the following:
	Select, fit and use the appropriate PPE: Safety Footwear Safety Gloves Safety eyewear Respiratory Protective Equipment (the importance of face fit tests). Dust masks Knee protection Hearing protectors Hard Hats Hi-visibility clothing Overalls and waterproof clothing Sun protection Face Fit test associated with respirators and dust mask protection. Maintain PPE – identify and report defects Store PPE in suitable accommodation Dispose of contaminated PPE in a	 Why we use it? Who provides PPE? Routine inspection of equipment. Your responsibilities. PPE Selection. RPE Face Fit Test Correct use and storage of PPE. Safe Disposal of Contaminated PPE
2.9	asbestos. This half-day module will make the ne of asbestos and instil the ability to recognise As encountered during their work. It will provide i disturb asbestos during any normal work activity other item which might contain asbestos. It will	ew entrant will learn about the hazards posed by ew entrant aware of the health and safety aspec sbestos Containing Materials that may be

	Asbestos and the law	The Control of Asbestos Regulations 2012.
		Background history of use
		Implications of exposure
		Identification
		Reporting procedures
	Asbestos and the working environment	• Properties of asbestos, its effects on health including the increased risk of developing lung cancer for asbestos workers who smoke.
		• The types, uses and likely occurrence of asbestos and asbestos materials in buildings and plant.
		• General procedures to deal with an emergency, e.g. an uncontrolled release of asbestos dust into the workplace
		• How to avoid the risk of exposure to asbestos.
	and recommended by the Health and Safety E aid training, so they have the knowledge and	is carried out to nationally recognised standards xecutive. The new entrant will receive basic first- necessary skills to deal with some accidents or
	and recommended by the Health and Safety E aid training, so they have the knowledge and injuries they may come across on site. The new	xecutive. The new entrant will receive basic first- necessary skills to deal with some accidents or w entrant will be issued with a certificate of
	and recommended by the Health and Safety E aid training, so they have the knowledge and	xecutive. The new entrant will receive basic first- necessary skills to deal with some accidents or w entrant will be issued with a certificate of nodule.
	and recommended by the Health and Safety E aid training, so they have the knowledge and injuries they may come across on site. The new attendance on successful completion of this m First Aid and the law.	 xecutive. The new entrant will receive basic first- necessary skills to deal with some accidents or w entrant will be issued with a certificate of nodule. The Health and Safety (First Aid) Regulation 1981.
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	 This classroom-based module will provide the learner with supporting information to give an appreciation of the Structural Waterproofing industry sector and the tasks a Waterproofing Technician is expected to perform. Why they are needed The different types of waterproofing systems Techniques of installation. 	 Learners to be made aware of: Their role as the company's ambassador on site The need to be observant about all matters that may impact upon their work Their Health and Safety responsibilities
	benefit for those who have started working in t	e on Structural Waterproofing specifically for the he structural waterproofing industry. The course rstanding of Structural Waterproofing. At the end assessment. Learners to be made aware of:
	One-day classroom-based workshop covering a broad range of subjects.	 Construction and use of Basements BS8102:2009 – Principles of waterproofing taking into consideration defects and future maintenance
		 Methods of waterproofing – Barrier, Integral and Cavity Drainage The strengths and challenges that relate to each form of waterproofing
		Installation and combination of various systems
		 Importance of correct preparation and application Site safety, waste disposal and the implications of poor site practice
3.2	Documentation, Drawings, Risk Assessments an	
	Learners will need to understand:	Learners should:
	• Site address and access arrangements.	• Have a good general knowledge of the geographical area in which work is normally conducted.
		• Be aware of what constitutes lawful and unlawful entry into a property/site.
		• Understand the Typical Documents issued to

	• Be aware of the type of information a drawing/sketch plan should contain in respect the type of work you are required to undertak Know whom to contact in the event of a quert irregularity and the information that will be required.
• Specification of Work.	• Be familiar with the type of work in the v specification and ability to execute it correctly and safely.
• Obtain all necessary equipment.	• Know where to obtain all regularly used equipment and the order procedures necessato procure such.
• Check Lists – Material lists, stock withdrawal, plant required, materials required.	• Know how to check Job Lists, specific requirements, where and how to obtain stock plant and materials.
• COSHH assessment applicable to the work to be undertaken/materials to be used.	• Be familiar with COSHH assessments and their purpose. Be familiar with PPE required f the materials or circumstances you might be exposed to.
• Correct and appropriate PPE is readily available prior to attending site.	
Material Safety Data Sheets.	• Be familiar with Material Safety Data She their content and when and by whom they m be required. Know where they are stored wh working on site.
• Risk Assessment applicable to the task or tasks to be undertaken.	
• Conduct and record a risk assessment for a task.	• Understand the purpose of a Risk Assessment, what its relevance is to you and others who may be exposed to your work activities and recording and acting on any variations.
• Method Statement(s).	• Understand the Method Statement and you must follow work sequence set out in the statement and recognise variations and communication thereof.
• Work schedule/time allowance.	• Monitor work progress on site against the agreed programme to ensure compliance. Knewhen and whom to notify in the event of a variation.
Material delivery schedules to site.	• Be aware of materials that will be delivered to site, how and when they will be delivered make provision for safe storage on site. Colledelivery note.
• Collect and store materials and retain all	

	• Complete all required forms, documents and records necessary upon completion of a job.	• Know how to correctly complete the forms, documents and records that are required on completion of a job as stipulated by your employer or other authorities.
3.3	Site Compliance	
	 Learners will be: Conversant and comply with all site 	 Learners should: Understand how co-operation on site can
	requirements as instructed by your employer and the site where work will be undertaken.	improve the Health and Safety culture resulting in improved working conditions for all.
	• Comply with Site Safety Induction requirements.	• Ensure you take responsibility and care of yourself, your colleagues and other persons on site.
		 Comply and conform to instructions. Communicate with others and report any failures or issues.
		• Not handle or interfere with any plant or equipment on site other than that for which you have been appropriately trained and have the authority to do so.
		• Be confident that you are trained appropriately to complete the task you are set.
		• Ensure that any plant and equipment used is maintained correctly.
3.4	Site Delivery Checks	
	 Learners will be able to: Make preparation as necessary ready to 	 Learners should: Develop an understanding of the importance of how through careful planning and controls
	receive a delivery.	 work can be more efficiently organized. Check delivery schedule/material lists to
	 Check off a delivered load against the delivery note. Report any discrepancy. 	ensure correct components/materials are present.
		• List equipment and organise equipment needed for completion of the works to the company's requirements.
		• Check material amounts / numbers tally with delivery documents.
3.5	Site off-load and Storage	
	Learners will be able to:	Learners should:
	• Assess different load sizes, shapes and their personal abilities in relation to the load	• Understand the need to safely load & off load materials and equipment and store in a safe accessible place.
	• Understand the importance of planning storage of materials correctly for best use after off-loading.	• Identify loading & unloading instructions that need to be followed.

lif	Off-load material in accordance with safe Nanual Handling requirements. Utilise safe fting practise (Straight back, knees bent, feet lightly apart).	• The Manual Handling Operations Regulations.
	Communicate with other colleagues to ecure assistance with awkward loads unless nechanical aids are required	• Understand the Principles of good movements
• m	Select mechanical aids and use in a safe nanner	• Will be aware of what mechanical aids an suitable for moving materials.
•	Hold appropriate skills card for operation f powered trucks or fork lifts.	Pallet trucks / Fork Lifts
	Managing materials which may have an mpact on the environment and/or a risk to ealth.	• Will understand the importance of Task analysis
		• Able to understand Method Statements and Risk Assessments
		• Plan storage of materials correctly for be use after offloading.
		• Understanding employer/site procedure for spillage and environmental control of materials.
Tl m ei st	ntrant commences work on site under the PCA pecialist trainer will carry out the Manual Handl	ved lifting and carrying techniques before the new SAP to reduce the risk of accidents and injuries. A ing training in line with current legislation and
Tl m ei sp in	his module is designed to provide the new entranoving and handling objects. It will teach appro notrant commences work on site under the PCA pecialist trainer will carry out the Manual Handl	ved lifting and carrying techniques before the new SAP to reduce the risk of accidents and injuries. A ing training in line with current legislation and e new entrant will be issued with a certificate of
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		 Group lifting. Analysis of movement The fundamental lifting, pushing and pulling turning and carrying techniques.
		• Understand the correct handling techniques including task assessment, what mechanical aids are available and the types and causes of injury that may be caused if correct procedures are not followed.
3.7	Protection of Materials and Tools	
	Learners will be able to:	Learners should understand:
	Locate and store tools and materials in secure areas away from areas where damage may occur:	
	Puncture holes	• Good storage can improve productivity and reduce chances of accidental damage
	• Dust	• Segregation from other operatives to avoid damage through in appropriate storage of other equipment
	• Theft	Value of equipment
	Weather protection	Ease of Accessibility / locating
	• Position and weight i.e. stacking position	Stock management and reduced waste
	Clearly identify materials	• Consequences of misuse and poor storage of materials
	• Storage of hazardous/harmful materials in a controlled area	
3.8	Installing, constructing and maintaining work ar	ea protection and Safety Equipment
	The practical training will focus on:	Learners should demonstrate works skills and avoid risks by:
		Safe methods of work
	• Interpretation of drawings, revisions, specifications, schedules, method statements, manufacturers information and reference points related to the work to be carried out.	 Safe methods of work Safe use of health and safety control equipment
	specifications, schedules, method statements, manufacturers information and reference	Safe use of health and safety control
	specifications, schedules, method statements, manufacturers information and reference	 Safe use of health and safety control equipment Safe use of access equipment/working
	specifications, schedules, method statements, manufacturers information and reference points related to the work to be carried out.	 Safe use of health and safety control equipment Safe use of access equipment/working platforms. Safe use, storage, handling of materials,
	specifications, schedules, method statements, manufacturers information and reference points related to the work to be carried out. Select resources necessary to undertake task:	 Safe use of health and safety control equipment Safe use of access equipment/working platforms. Safe use, storage, handling of materials, tools and equipment
	 specifications, schedules, method statements, manufacturers information and reference points related to the work to be carried out. Select resources necessary to undertake task: Measuring tools and instruments 	 Safe use of health and safety control equipment Safe use of access equipment/working platforms. Safe use, storage, handling of materials, tools and equipment Specific risks to health

This module will provide an awareness of the has equipment and different types of powered tools those hazards.	and the safety precautions required to prevent	
The new entrant will need to know about various preparation and application plant and equipmer commonly used in the Waterproofing Industry. Following completion of this module a new entran should be able to use the plant and equipment safely and competently.		
The practical training will focus on the correct use of:	Learners to know:	
• 110v equipment	 How to select and wear correct and suitable PPE for each type of equipment use. 	
Generators and Lighting	• How to select suitable plant/equipment for carrying out the task, including Occupational Exposure Limits (OEL).	
 Preparation tools including drilling, breakers, cutting, scabbler and abrasive equipment 	 Awareness and knowledge of equipment manual. 	
Drilling tools	• Reporting and procedures of defective tools/equipment.	
 Hand held power tools including cutters and grinders, 	• Check Portable Appliance Testing (PAT) is in place and in date.	
 Power washing and pumping equipment 	• Visually check the cable, plug and all electrical parts of the equipment (and transformer) for damage or defects.	
Cement mixers and plaster mixers	• Check, replace or fit correctly any blades, discs, drill bits, hoses, etc, in line with employer procedures.	
	 Use appropriate manual handling techniques. 	
	• The Manual Handling Operations Regulations.	
	• How to regulate speed or pressures on various equipment for use of application/spray etc.	
	• How to visually appraise any hoses and recognise damage, weakness and ballooning.	
	• Visually check the tank, drum or container of product, fittings and delivery hose/tube/injector for damage.	
	• Correctly use a spill control pack and dispose of waste.	
Lighting:		
• Visually check 110v transformer and its cable and plug for damage or fault.	• Understanding work area light levels and consequences and impact of different lighting equipment, i.e. halogen, etc.	

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	Check for PAT certificate	
	• Visually check safety light body, cable and plug for damage or fault.	
	Plug safety light into transformer.	
	• Provide temporary secure fixing or fixings for safety light(s) to enable work area to be adequately lit to perform the task safely.	
	How to safely secure safety lighting.	
3.1	Inspect and complete user maintenance on plan	nt and machinery
	The new entrant will need to know about prepar commonly used in the Structural Waterproofing servicing requirements for various items and be associated with such equipment. Following comp to carry out routine day to day servicing requirer	Industry. They must be familiar with simple able to recognise potential faults and hazards pletion of this module a new entrant should be abl
	The practical training will focus on the correct use of:	Learners to know how to:
	• 110v equipment	• Be aware of manufacturer and employer procedures for maintenance.
	Generators and Lighting	• Select and wear correct and suitable PPE fo each type of equipment to be maintained or repaired.
	• Preparation tools including drilling, breakers, cutting, scabbler and abrasive equipment	• Awareness and knowledge of equipment maintenance manual
	Drilling tools	• What Portable Appliance Testing (PAT) involves.
	• Hand held power tools including cutters and grinders,	Check Portable Appliance Testing (PAT) date
	Power washing and pumping equipment	• Know damage reporting procedure.
	Cement mixers and plaster mixers	• Visually check the cable, plug and all electrical parts of the equipment (and transformer) for damage or defects.
		• Visually check, test and establish the cause of breakdown or failure of the equipment.
		• How to recognise wear of components and attachments.
		• Identify the component or parts that requir replacement, repair or modification.
		• Ordering of replacement parts and/or equipment
		• Returns to equipment specialists, hire shops etc.
		• Dismantle the equipment referring to the instruction manual and renew items as required for regular maintenance.

		 How to correctly and safely renew components.
		• How to change/service/clean material application components/equipment.
		• Visually check 110v transformer and lighting equipment, its cable and plug for damage or fault.
3.11	Small Tools	
		zards associated with construction site equipment. e hazards of different types of hand tools and the zards.
	The practical training will focus on the correct use and maintenance of:	Learners need to be aware of:
	 Hand tools including hammers, mallets, wrecking bars, etc 	• The hazards posed by and associated with hand held tools.
	• Sharp edge tools including bolsters, chisels, knives, cutters, trowels, screwdrivers etc	• How to safely use all tools identified in the practical element.
	• Cutting tools including saws, snips, cutters, etc	• Recognise the situation or circumstance and select the appropriate tool for the task.
	Measuring tools	• Select and wear the appropriate PPE for the task.
		Safe methods of work
2 1 2		Clean tool upon completion of task.
3.12	Pre-contract works start checklist	Learners should know how to:
	The practical training will focus on:	Learners should know how to:
	• Interpretation of drawings, revisions, specifications, schedules, method statements, manufacturers information and reference points related to the work to be carried out.	• Safe use of PPE, access equipment/working platforms to carry out the activity.
		• Transfer, transpose, level, measure, mark, position, fix and secure.
		• Protect work and its surrounding area from damage
	Select resources necessary to undertake task:	Minimise damage
	Measuring tools and instruments	Maintain a clean work space
	Marking materials/components	Correct disposal of waste
	Tools and equipment	• Complete work within estimated, allocated time to meet needs of client/contract.
Modu	le M4 – Practical and Knowledge on Site	

This module will inform a new entrant about different methods and materials used in Structural Waterproofing Industry. They will learn about different methods of creating a robust waterproofed structure, the function and performance of structural waterproofing components and terminology used to describe them. Following the completion of this module the new entrant should be able to demonstrate a good general understanding of Structural Waterproofing.

Ref	Practical	Knowledge
кет 4.1	Prepare surfaces for (all forms of) structural wat	
	This module provides a New entrant with the knowledge and understanding necessary to prepare an existing or newly formed wall surface adequately in readiness to receive waterproofing	
	Learners to demonstrate, list or state how to:	Learners need to know:
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.
		How to amend and update Risk Assessments.
	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures,	How to identify Hazard Warning signs
	using tools and machinery, creating dust and mixing/applying/using products that create	Action to take in the event of a spillage, accident or ingestion
	hazards.	Understand manufacturer/COSHH data sheets.
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.	
	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
	Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.
	Identify storage areas for tools and resources	How to identify storage areas for tools and resources
	Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
	Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.
	Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
	Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.
	Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warning notices, signage and barriers.

	Pre-installation measures and precautions necessary prior to starting work.
	How to screen off, protect areas to control dust
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventila work areas.
	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventila work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground services are identified and locations marked around the work area.
Recognise wall and floor surfaces that are not suitable to receive waterproofing and require preparatory work prior to application.	The reason why wall and floor preparation are necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.	How to check all pipe and electrical services hav been removed from wall and floor surfaces, or i retained, have been prepared with correct joint and or seals for the waterproofing application.
Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed.	How to check all inbuilt structural timbers and frame timbers have been removed or isolated from walls.
Identify and safely use Tools & Equipment as required:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
• 110v equipment	
Generators and Lighting	
• Preparation tools including electrical hammer chisel, breakers, scarifiers, scabblers and abrasive equipment	
Drilling tools	
• Hand held power tools including cutters and grinders	
• Power washing and pumping equipment	
Cement mixers	
• Wheel barrow, shovel, spade, pick-axe	
and brushes	

• Plaster mixers and plastering tools, trowels, floats etc	
• Hand tools including hammers, mallets, wrecking bars	
 Sharp edge tools including bolsters, chisels, knives, cutters, screwdrivers etc 	
 Cutting tools including saws, snips, 	
cutters etc	
Measuring tools	
• Etc	
Clean off loose material, remove old plasters/render and other surface materials.	
Safe use of a Club/Lump hammer, bolster and cold chisel.	
Safe use of an electrical hammer chisel.	
Safe use of scarifying/scabbling equipment.	
Safe use of power washing equipment.	
Examine exposed masonry and assess suitability for receiving waterproofing materials.	How to examine exposed prepared masonry an floors and assess suitability for receiving waterproofing materials.
Understand the function and construction of a reinforced concrete floor slab designed and	How a reinforced concrete slab is constructed and its function.
approval by a Structural Engineer.	
Prepare and mix sand and cement mortar with waterproof additives to make good.	How to prepare and mix sand and cement mort with waterproof additives to make good.
Brick up/make good any damaged exposed wall surfaces/masonry to receive waterproofing materials	How to brick up/make good any damaged exposed wall surfaces/masonry.
Make good small areas of defective pointing/mortar/voids/cracks on a wall surface in readiness to receive a waterproofing product	
Cut out and form a reinforced waterproof fillet to floor/wall junction.	How to cut out and form a reinforced waterpro fillet to wall/floor/soffit, etc junction.
	How to prepare and apply a suitable product to reinforce a wall/floor/soffit, etc junction.
Prepare and apply a suitable product to reinforce a floor/wall junction in accordance with manufacturer's instructions.	How to prepare a suitable substrate to create a flat, sound surface prior to the application of a waterproofing system.
	What is likely to happen if a waterproofing product is applied on to a poorly prepared wall/floor/soffit, etc surface.

	Apply a specialised waterproof product coat to walls to provide primary resistance to passage of water. Apply a tight waterproof render coat to walls to provide primary resistance to passage of water.	How to address active ingress of free water.
	Prepare and apply a suitable cementitious base 'render' or similar to provide a flat prepared surface to receive the waterproofing system.	How to mix and apply a specialised waterproof product to walls, floors and soffits, etc.
	Check wall surfaces have been prepared correctly to receive the waterproofing system.	How to assess all wall and floor surfaces have been prepared correctly to receive a waterproofing membrane.
	Recognise the function of ground drainage for structural waterproofing and the role of external land drainage.	Understand the need for appropriate ground land drainage.
	Recognise the function of rodding and jetting access points to maintain and service external land drainage.	Understand the need for rodding and jetting access points to external land drainage.
	Identify different waste materials, segregate as necessary, bag up and store safely for disposal.	How to Identify different waste materials, segregate as necessary, bag up, store safely and dispose of waste correctly at appropriate waste disposal facility
	Collect, contain and dispose of waste correctly at appropriate waste disposal facility.	
	Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures.	Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.
4.2 Prepare joints in structures including 'dry-pack' underpinned areas and apply primary waterproofing This module provides a New Entrant with the knowledge and understanding necessar		
a newly formed underpinned wall with 'dry-pack' joints adequately in readiness to r waterproofing.		
	Learners to demonstrate, list or state how to:	Learners need to know:
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.
	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create	How to amend and update Risk Assessments. How to identify Hazard Warning signs Action to take in the event of a spillage, accident or ingestion
	hazards.	Understand manufacturer/COSHH data sheets.

Consider the work schedule and risk assessment regarding the Working at Height	
Regulations 2005.	
All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.
Identify storage areas for tools and resources	How to identify storage areas for tools and resources
Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.
Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.
Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warning notices, signage and barriers.
	Pre-installation measures and precautions necessary prior to starting work.
	How to screen off, protect areas to control dust.
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground services are identified and locations marked around the work area.
Recognise wall and floor surfaces that are not suitable to receive waterproofing and require preparatory work prior to application.	The reason why wall and floor preparation are necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.

Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.	How to check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.
Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed.	How to check all inbuilt structural timbers and frame timbers have been removed or isolated from walls.
Identify and safely use Tools & Equipment as required:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
• 110v equipment	
Generators and Lighting	
• Preparation tools including electrical hammer chisel, breakers, scarifiers, scabblers and abrasive equipment	
Drilling tools	
• Hand held power tools including cutters and grinders	
Power washing and pumping equipment	
Cement mixers	
• Wheel barrow, shovel, spade, pick-axe and brushes	
• Plaster mixers and plastering tools, trowels, floats etc	
• Hand tools including hammers, mallets, wrecking bars	
• Sharp edge tools including bolsters, chisels, knives, cutters, screwdrivers etc	
• Cutting tools including saws, snips, cutters etc	
Measuring tools	
• Etc	
Clean off loose material, remove old plasters/render and other surface materials.	
Safe use of a Club/Lump hammer, bolster and cold chisel.	
Safe use of an electrical hammer chisel.	
Safe use of scarifying/scabbling equipment.	
Safe use of power washing equipment.	
Examine exposed masonry and assess suitability for receiving waterproofing materials.	How to examine exposed prepared masonry and floors and assess suitability for receiving waterproofing materials.

4.3	Prepare joints area as required and apply a specialised waterproof product to joint to provide primary resistance to passage of water in accordance with manufacturer's instructions. Prepare the 'dry-pack' area as required and apply a specialised waterproof product to 'dry- pack' joint to provide primary resistance to passage of water in accordance with manufacturer's instructions. Examine prepared joints and assess suitability for receiving waterproofing materials. Apply a specialised waterproof product to exposed joints to provide primary resistance to passage of water and to provide a flat prepared surface to receive the waterproofing system in accordance with manufacturer's instructions. Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures. Apply cementitious coatings, multi-coat renders primers - (Type A waterproofing systems)	Understand manufacturer/COSHH data sheets. How to prepare joints and the 'dry-pack' area and apply a specialised waterproof product. What is likely to happen if a waterproofing product is applied to a poorly prepared joint. How to work out the amount of product(s) that will be required in relation to the work area/specification. How to mix and apply a specialised waterproof product to joints to provide primary resistance to passage of water in accordance with manufacturer's instructions. Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.	
	Type-A protection is defined by BS8102:2009 (Code of practice for protection of below ground structures against water from the ground) as 'barrier protection'. This is where a material is put in place that offers a barrier to the passage of water with the aim of keeping the target environment within a prescribed level of 'dryness'.		
	Learners to demonstrate, list or state how to:	Learners need to know:	
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.	
	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create hazards.	How to amend and update Risk Assessments. How to identify Hazard Warning signs Action to take in the event of a spillage, accident or ingestion Understand manufacturer/COSHH data sheets.	
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.		

All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.
Identify storage areas for tools and resources	How to identify storage areas for tools and resources
Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.
Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.
Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warning notices, signage and barriers.
	Pre-installation measures and precautions necessary prior to starting work.
	How to screen off, protect areas to control dust.
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground services are identified and locations marked around the work area.
Recognise wall and floor surfaces that are not suitable to receive waterproofing and require preparatory work prior to application.	The reason why wall and floor preparation are necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.	How to check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.

Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed. Identify and safely use Tools & Equipment as required: 110v equipment Generators and Lighting Preparation tools including electrical

hammer chisel, breakers, scarifiers, scabblers and abrasive equipment

• Drilling tools

• Hand held power tools including cutters and grinders

- Power washing and pumping equipment
- Cement mixers
- Wheel barrow, shovel, spade, pick-axe and brushes
- Plaster mixers and plastering tools, trowels, floats etc
- Hand tools including hammers, mallets, wrecking bars
- Sharp edge tools including bolsters, chisels, knives, cutters, screwdrivers etc
- Cutting tools including saws, snips, cutters etc
- Measuring tools
- Etc

Clean off loose material, remove old plasters/render and other surface materials. Safe use of a Club/Lump hammer, bolster and cold chisel.

Safe use of an electrical hammer chisel.

Safe use of scarifying/scabbling equipment. Safe use of power washing equipment.

Examine exposed masonry and assess suitability for receiving waterproofing materials.

Apply one of the following (Type A) product types in accordance with manufacturer's instructions:

Cementitious Crystallisation active systems Proprietary Cementitious, additive systems, multi-coat renders, toppings and coatings. How to check all inbuilt structural timbers and frame timbers have been removed or isolated from walls.

How to select and safely use any equipment for preparatory work mentioned in the method statement.

How to examine exposed prepared masonry and floors and assess suitability for receiving waterproofing materials.

How to apply/fix the following (Type A) product type in accordance with manufacturer's instructions:

Cementitious Crystallisation active systems

Proprietary Cementitious, additive systems, multi-coat renders, toppings and coatings.

	Apply a range of Ancillary product(s) that combine with the selected Type A product types and apply/fix in accordance with manufacturer's instructions:	How to apply/fix the following Ancillary product(s) with the selected Type A product type in accordance with manufacturer's instructions:
	Bandage Joint systems Membrane Protection Products Service fittings Pre-formed details Joints & Continuity with other systems Calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions. Follow the product manufacturer's instructions or directions.	Bandage Joint systems Membrane Protection Products Service fittings Pre-formed details Joints & Continuity with other systems How to calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions. Understand the product manufacturer's instructions or directions.
	Load application equipment and apply product in accordance with the manufacturer's instructions. Recognise the function of ground drainage for structural waterproofing and the role of	How to mix and apply the specialised waterproof product. How to load application equipment and apply product. Understand the importance of external land drainage and maintainability.
	external land drainage. Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures. Check whether sign off Construction Quality Assurance site inspection has been carried out. Check sign off in line with employer's	Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.
	procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
.4	Apply liquid, multi-pack, Resin & Mastic Asphalt (Type A waterproofing systems)	systems with/without primers –
	Type-A protection is defined by BS8102:2009 (Co structures against water from the ground) as 'ba in place that offers a barrier to the passage of w environment within a prescribed level of 'dryner	arrier protection'. This is where a material is put ater with the aim of keeping the target
	Learners to demonstrate, list or state how to:	Learners need to know:
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.

	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create hazards.	How to amend and update Risk Assessments.
		How to identify Hazard Warning signs
		Action to take in the event of a spillage, accident or ingestion
		Understand manufacturer/COSHH data sheets.
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.	
	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
	Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.
	Identify storage areas for tools and resources	How to identify storage areas for tools and resources
	Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
	Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.
	Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
	Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.
	Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warning notices, signage and barriers.
		Pre-installation measures and precautions necessary prior to starting work.
		How to screen off, protect areas to control dust.
	Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
		How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
	Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.

iden	rhead and underground services are itified, and locations marked around the k area.	Ensure the overhead and underground services are identified and locations marked around the work area.
suita	ognise wall and floor surfaces that are not able to receive waterproofing and require paratory work prior to application.	The reason why wall and floor preparation are necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.		How to check all pipe and electrical services hav been removed from wall and floor surfaces, or i retained, have been prepared with correct joint and or seals for the waterproofing application.
timb	ck all inbuilt structural timbers and frame pers have been removed or isolated from s to be waterproofed.	How to check all inbuilt structural timbers and frame timbers have been removed or isolated from walls.
	ntify and safely use Tools & Equipment as uired:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
•	110v equipment	
•	Generators and Lighting	
	Preparation tools including electrical imer chisel, breakers, scarifiers, scabblers abrasive equipment	
•	Drilling tools	
• and	Hand held power tools including cutters grinders	
•	Power washing and pumping equipment	
•	Cement mixers	
• and	Wheel barrow, shovel, spade, pick-axe brushes	
• trow	Plaster mixers and plastering tools, vels, floats etc	
• wree	Hand tools including hammers, mallets, cking bars	
• chise	Sharp edge tools including bolsters, els, knives, cutters, screwdrivers etc	
• cutte	Cutting tools including saws, snips, ers etc	
•	Measuring tools	
•	Etc	
Clea	n off loose material, remove old	
	ters/render and other surface materials.	
	use of a Club/Lump hammer, bolster and chisel.	
Safe	use of an electrical hammer chisel.	

Safe use of power washing equipment.	
Examine exposed masonry and assess suitability for receiving waterproofing materials.	How to examine exposed prepared masonry ar floors and assess suitability for receiving waterproofing materials.
Apply one of the following (Type A) product types in accordance with manufacturer's instructions:	How to apply/fix the following (Type A) produce type in accordance with manufacturer's instructions:
Liquid Applied Membranes including Desins	Liquid Applied Membranes including Resins an Multi-pack
Liquid Applied Membranes including Resins and Multi-pack	Awareness of Mastic Asphalt Membranes – <u>car</u> only be applied with hot works permit, extremely unlikely to be used by new entrant
Apply a range of Ancillary product(s) that combine with the selected Type A product types and apply/fix in accordance with manufacturer's instructions:	How to apply/fix the following Ancillary product(s) with the selected Type A product type in accordance with manufacturer's instructions:
Bandage Joint systems	Bandage Joint systems
Membrane Protection Products	Membrane Protection Products
Service fittings	Service fittings
Pre-formed details	Pre-formed details
Joints & Continuity with other systems	Joints & Continuity with other systems
Calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions.	How to calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions.
Follow the product manufacturer's instructions or directions.	Understand the product manufacturer's instructions or directions.
	How to mix and apply the specialised waterproproduct.
Load application equipment and apply product in accordance with the manufacturer's instructions.	How to load application equipment and apply product.
Recognise the function of ground drainage for structural waterproofing and the role of external land drainage.	Understand the importance of external land drainage and maintainability.
Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures.	Understand the importance of safe disposal of contaminated or hazardous waste materials ar product containers.
Check whether sign off Construction Quality Assurance site inspection has been carried out.	

	Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.		
4.5	Install sheet membrane systems with/without primers - (Type A waterproofing systems) Type-A protection is defined by BS8102:2009 (Code of practice for protection of below ground structures against water from the ground) as 'barrier protection'. This is where a material is put in place that offers a barrier to the passage of water with the aim of keeping the target environment within a prescribed level of 'dryness'.		
	Learners to demonstrate, list or state how to:	Learners need to know:	
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.	
		How to amend and update Risk Assessments.	
	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures,	How to identify Hazard Warning signs	
	using tools and machinery, creating dust and mixing/applying/using products that create	Action to take in the event of a spillage, acciden or ingestion	
	hazards.	Understand manufacturer/COSHH data sheets.	
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.		
	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	
	Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.	
	Identify storage areas for tools and resources	How to identify storage areas for tools and resources	
	Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.	
	Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resource and return vehicle to permitted parking areas.	
	Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.	
	Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.	

Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warn notices, signage and barriers.
	Pre-installation measures and precautions necessary prior to starting work.
	How to screen off, protect areas to control de
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment dust and fumes or passive equipment to vent work areas.
	How to use mechanical extraction equipment dust and fumes or passive equipment to vent work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground servic are identified and locations marked around t work area.
Recognise wall and floor surfaces that are not suitable to receive waterproofing and require preparatory work prior to application.	The reason why wall and floor preparation ar necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.	How to check all pipe and electrical services h been removed from wall and floor surfaces, or retained, have been prepared with correct jo and or seals for the waterproofing application
Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed.	How to check all inbuilt structural timbers an frame timbers have been removed or isolated from walls.
Identify and safely use Tools & Equipment as required:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
• 110v equipment	
Generators and Lighting	
• Preparation tools including electrical hammer chisel, breakers, scarifiers, scabblers and abrasive equipment	
Drilling tools	
• Hand held power tools including cutters and grinders	
• Power washing and pumping equipment	
Cement mixers	

• Wheel barrow, shovel, spade, pick-axe and brushes

• Plaster mixers and plastering tools, trowels, floats etc

• Hand tools including hammers, mallets, wrecking bars

• Sharp edge tools including bolsters, chisels, knives, cutters, screwdrivers etc

• Cutting tools including saws, snips, cutters etc

- Measuring tools
- Etc

Clean off loose material, remove old plasters/render and other surface materials.

Safe use of a Club/Lump hammer, bolster and cold chisel.

Safe use of an electrical hammer chisel.

Safe use of scarifying/scabbling equipment.

Safe use of power washing equipment.

Examine exposed masonry and assess suitability for receiving waterproofing materials.

Apply one of the following (Type A) product types in accordance with manufacturer's instructions:

Bonded Sheet Membranes - either pre-applied or post applied.

Bentonite Clay active membranes Loose Laid Membrane Types

Apply a range of Ancillary product(s) that combine with the selected Type A product types and apply/fix in accordance with manufacturer's instructions:

Bandage Joint systems

Membrane Protection Products

Service fittings

Pre-formed details

Joints & Continuity with other systems

Calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions.

Follow the product manufacturer's instructions or directions.

How to examine exposed prepared masonry and floors and assess suitability for receiving waterproofing materials.

How to apply/fix the following (Type A) product type in accordance with manufacturer's instructions:

Bonded Sheet Membranes - either pre-applied or post applied.

Bentonite Clay active membranes Loose Laid Membrane Types

How to apply/fix the following Ancillary product(s) with the selected Type A product type in accordance with manufacturer's instructions:

Bandage Joint systems Membrane Protection Products Service fittings

Pre-formed details

Joints & Continuity with other systems

How to calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's loading instructions.

Understand the product manufacturer's instructions or directions.

How to apply the specialised waterproof product.

	Load application equipment and apply product in accordance with the manufacturer's instructions.	How to load application equipment and apply product.
	Recognise the function of ground drainage for structural waterproofing and the role of external land drainage.	Understand the importance of external land drainage and maintainability.
	Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures.	Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.
	Check whether sign off Construction Quality Assurance site inspection has been carried out.	
	Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
4.6	Install cavity drainage membrane systems - (Typ	De C waterproofing systems)
	resistance against WATER penetration and inco	rporates a drained cavity within the basement avity to collect groundwater seepage through th
	resistance against WATER penetration and inco structure. There is permanent reliance on this c	rporates a drained cavity within the basement avity to collect groundwater seepage through th
	resistance against WATER penetration and inco structure. There is permanent reliance on this c structure and direct it to drains or a sump for re	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping.
	resistance against WATER penetration and inco structure. There is permanent reliance on this c structure and direct it to drains or a sump for re Learners to demonstrate, list or state how to: Locate authorised person to induct you on to site and make introductions	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the
	resistance against WATER penetration and inco structure. There is permanent reliance on this co structure and direct it to drains or a sump for re Learners to demonstrate, list or state how to: Locate authorised person to induct you on to site and make introductions Read method statements and risk assessments associated with planned work procedures	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.
	resistance against WATER penetration and inconstructure. There is permanent reliance on this costructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructures to demonstrate, list or state how to: Locate authorised person to induct you on to site and make introductions Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments. How to identify Hazard Warning signs
	resistance against WATER penetration and inconstructure. There is permanent reliance on this costructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructures and make introductions.	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments. How to identify Hazard Warning signs Action to take in the event of a spillage, acciden
	resistance against WATER penetration and inconstructure. There is permanent reliance on this costructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructures to demonstrate, list or state how to: Locate authorised person to induct you on to site and make introductions Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create	rporates a drained cavity within the basement avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments. How to identify Hazard Warning signs Action to take in the event of a spillage, acciden or ingestion
	resistance against WATER penetration and inconstructure. There is permanent reliance on this costructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and direct it to drains or a sump for restructure and make introductions Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create hazards. Consider the work schedule and risk assessment regarding the Working at Height	avity to collect groundwater seepage through the moval by drainage or pumping. Learners need to know: How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments. How to identify Hazard Warning signs Action to take in the event of a spillage, accident or ingestion

Identify storage areas for tools and resources	resources
Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipme and materials.
Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resour and return vehicle to permitted parking area
Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable for the task.
Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instruction
Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warr notices, signage and barriers.
	Pre-installation measures and precautions necessary prior to starting work.
	How to screen off, protect areas to control d
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipmen dust and fumes or passive equipment to ven work areas.
	How to use mechanical extraction equipmen dust and fumes or passive equipment to ven work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground service are identified and locations marked around to work area.
Recognise wall and floor surfaces that are not suitable to receive waterproofing and require preparatory work prior to application.	The reason why wall and floor preparation at necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
Check all pipe and electrical services have been removed from wall and floor surfaces, or if retained, have been prepared with correct joints and or seals for the waterproofing application.	How to check all pipe and electrical services been removed from wall and floor surfaces, retained, have been prepared with correct jo and or seals for the waterproofing applicatio
Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed.	How to check all inbuilt structural timbers ar frame timbers have been removed or isolate from walls.

	tify and safely use Tools & Equipment as ired:	Hov pre stat
•	110v equipment	
•	Generators and Lighting	
	Preparation tools including electrical mer chisel, breakers, scarifiers, scabblers abrasive equipment	
•	Drilling tools	
• and	Hand held power tools including cutters grinders	
•	Power washing and pumping equipment	
•	Cement mixers	
• and	Wheel barrow, shovel, spade, pick-axe brushes	
• trow	Plaster mixers and plastering tools, els, floats etc	
• wrea	Hand tools including hammers, mallets, cking bars	
•	Sharp edge tools including bolsters,	
chise	els, knives, cutters, screwdrivers etc	
• cutte	Cutting tools including saws, snips, ers etc	
•	Measuring tools	
•	Etc	
	n off loose material, remove old ers/render and other surface materials.	
	use of a Club/Lump hammer, bolster and chisel.	
Safe	use of an electrical hammer chisel.	
Safe	use of scarifying/scabbling equipment.	
Safe	use of power washing equipment.	
suita	nine exposed masonry and assess ability for receiving waterproofing erials.	Hov floc wat
	nine existing solid floor and assess ability and preparation needs for retention.	Wh pro sur
rega	ority from Structural Engineer with rds to suitability of existing slab for use removing perimeter material.	Rec suit per
floor	erstand how to excavate the retained solid r and form sump chamber(s) and gully tes for perimeter channel.	Hov sun cha

How to select and safely use any equipment for preparatory work mentioned in the method statement.

How to examine exposed prepared masonry and floors and assess suitability for receiving waterproofing materials.

What is likely to happen if a waterproofing product is applied on to a poorly prepared wall surface.

Recognise approval from Structural Engineer to suitability of existing slab for use and removing perimeter material.

How to excavate the retained solid floor to form sump chamber(s) and gully rebates for perimeter channel.

	1
Understand the function and construction of a reinforced concrete floor slab designed and approval by a Structural Engineer.	How a Structural Engineer approved design reinforced concrete slab is constructed.
Understand how to cast a reinforced concrete slab incorporating sump chamber(s) and gully rebates for perimeter channel. Slab to be cast level.	How to cast a reinforced concrete slab incorporating sump chamber(s) and gully rebates for perimeter channel. Slab to be cast level.
Understand how to cast a reinforced concrete slab incorporating sump chamber and outlets, services and connections for other appropriate drainage (spine drainage).	How to cast a reinforced concrete slab incorporating sump chamber and outlets, services and connections for other appropriate drainage (spine drainage).
Install perimeter drainage channel into rebate with connections as per manufacturers spec.	How to install perimeter drainage channel with connections into formed rebates in the floor slat to manufacturers spec.
Install perimeter drainage channel to floor slab surface and lay sacrificial sand and cement screed former against the channel all to manufacturers spec.	How to install perimeter drainage channel on the floor slab surface to manufacturers spec.
Install perimeter drainage channel to floor slab surface and lay approved insulation material against the channel all to manufacturers spec.	How to lay sacrificial sand and cement screed or approved insulation against the channel to manufacturers spec.
Fit inspection access/maintenance ports to the channel at key changes in direction or every 8 – 10 metres as per manufacturers spec.	How to fit inspection access/maintenance ports to the channel at key changes in direction or every 8 – 10 metres as per manufacturers spec.
Install sump correctly in chamber as per manufacturers spec.	How to install sump correctly in chamber as per manufacturers spec.
Complete connections between sump and drainage channel	How to complete connections between sump and drainage channel
Make good and repair excavated sump and channel floor edges with sand and cement mortar incorporating waterproof additive.	How to make good and repair excavated sump and channel floor edges with sand and cement mortar incorporating waterproof additive.
Apply a specialised waterproof product coat to walls to provide primary resistance to passage of water and to provide a flat prepared surface to receive the waterproofing system in accordance with manufacturer's instructions.	How to mix and apply a specialised waterproof product to walls and floors to provide primary resistance to passage of water and apply a tight waterproof render coat to walls/floors to create a flat, sound surface and apply product(s) in accordance with the manufacturer's instructions
Apply anti-lime coating to any new concrete walls and floor.	How to apply anti-lime coating to new concrete walls and floor.
Flood test floor and drainage to ensure test water runs freely to sump	How to flood test floor and drainage to ensure it runs freely to sump
Check wall and floor surfaces have been prepared correctly to receive the waterproofing system.	How to assess all wall and floor surfaces have been prepared correctly to receive a waterproofing membrane.

49

Calculate the amount of membrane product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's instructions.

Fix Cavity Drainage Membrane to walls and vaulted surfaces in accordance with manufacturer's instructions using correct fixings and joint tapes.

Fix Cavity Drainage Membrane to walls in accordance with manufacturer's instructions using correct fixings, joint tapes and detailing at the perimeter for independent dry lining systems.

Fix Cavity Drainage Plaster Membrane to walls in accordance with manufacturer's instructions using correct fixings and joint tapes and detailing at the perimeter in readiness to receiving plaster direct or dot and dab fixed plasterboard.

Fix Cavity Drainage Membrane to walls in accordance with manufacturer's instructions using correct fixings and joint tapes and detailing at the perimeter to receive timber battens or frame fixed to membrane fixings from floor to ceiling to form dry lining ready to receive plasterboard.

Prepare surfaces of soffits to enable the installation of a Cavity Drainage System.

Lay appropriate Cavity Drainage Floor Membrane over prepared floor or approved insulation in accordance with manufacturer's instructions using correct joint tapes and detailing at the perimeter to receive various floor finishes.

Identify the need for continuation of the waterproofing system in stepped and multi-level basements.

Ensure compatibility between products/systems.

Mark final positions of rodding and jetting access points for maintenance and service of the drainage channels.

How to calculate the amount of product(s) that will be required in relation to the work area/specification in accordance with the manufacturer's instructions.

How to fix Cavity Drainage Membrane to walls and vaulted surfaces in accordance with manufacturer's instructions using correct fixings and joint tapes.

How to fix Cavity Drainage Plaster Membrane to walls and vaulted surfaces in accordance with manufacturer's instructions using correct fixings, joint tapes and detailing at the perimeter in readiness to receiving plaster direct or dot and dab fixed plasterboard.

How to fix Cavity Drainage Membrane to walls and vaulted surfaces in accordance with manufacturer's instructions using correct fixings, joint tapes and detailing at the perimeter to receive timber battens or frame fixed to membrane fixings from floor to ceiling to form dry lining and ready to receive plasterboard.

How to identify and prepare surfaces of soffits to enable the installation of a Cavity Drainage System.

How to lay appropriate Cavity Drainage Floor Membrane over prepared floor or approved insulation in accordance with manufacturer's instructions using correct joint tapes and detailing at the perimeter in readiness to receive floor finishes.

How to identify the need for continuation of the waterproofing system in stepped and multi-level basements.

How to ensure compatibility between products/systems.

How to mark-up final positions for rodding and jetting access points for maintenance and service of the drainage channels.

	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.
	manage large quantities of water and not susce Learners to demonstrate, list or state how to:	
	of water management is generally achieved using cavity drain membranes (CDM) and drainage channels or pipes directing to a sump and pump system to manage the disposal of the collected water. Pumped water should be discharged into suitable drainage, not a soakaway, which can	
	ground retaining elements and the internal finis collection channels that in turn deliver water to of water management is generally achieved using	a point where it can be discharged. The process
	The basic principle of a Type C waterproofing sys	-
4.7	Install drains, sump and pumping ancillaries	
	Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
	Check whether sign off Construction Quality Assurance site inspection has been carried out.	
	Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures.	Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.
	Identify different waste materials, segregate as necessary, bag up and store safely for disposal.	
		Be aware of the service and maintenance schedules for system
	Understand service and maintenance schedules for system.	How to flood test system and commission pumps.
		How to inspect channel, sump and pumps and clear site debris.
	Final Test system and drainage for leakage and efficiency.	Understand the need for appropriate ground land drainage.
	Final Tast system and drainage for loakage and	How to flood test system and drainage to ensure it runs freely to sump.
	drainage or suitable land drainage.	Understand where pumped water should be discharged to (suitable drainage) e.g. not a soakaway.
	Connect outlet pipes to sump and to approved	How to connect outlet pipes to sump and to suitable drainage outlet with approved connection

	Read method statements and risk assessments	How to amend and update Risk Assessments.
	associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create hazards.	How to identify Hazard Warning signs
		Action to take in the event of a spillage, accident or ingestion
		Understand manufacturer/COSHH data sheets.
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.	
	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
	Select and use safely the correct access equipment for the task.	How to select and use safely the correct tools and equipment for the task.
	Identify storage areas for tools and resources	How to identify storage areas for tools and resources
	Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
	Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.
	Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
	Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instructions.
	Deploy appropriate warning notices, signage and barriers.	When and where to deploy appropriate warning notices, signage and barriers.
		Pre-installation measures and precautions necessary prior to starting work.
		How to screen off, protect areas to control dust.
	Take appropriate measures to contain and control dust/fume and ventilate work area.	How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
		How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
	Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.

iden	rhead and underground services are tified, and locations marked around the k area.	Ensure the overhead and underground services are identified and locations marked around the work area.
suita	ognise wall and floor surfaces that are not able to receive waterproofing and require paratory work prior to application.	The reason why wall and floor preparation are necessary for the successful application of waterproofing, i.e. exposed reinforcement protection.
remo retai joint	ck all pipe and electrical services have been oved from wall and floor surfaces, or if ined, have been prepared with correct ts and or seals for the waterproofing ication.	How to check all pipe and electrical services hav been removed from wall and floor surfaces, or retained, have been prepared with correct joint and or seals for the waterproofing application.
Check all inbuilt structural timbers and frame timbers have been removed or isolated from walls to be waterproofed.		How to check all inbuilt structural timbers and frame timbers have been removed or isolated from walls.
	itify and safely use Tools & Equipment as iired:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
•	110v equipment	
•	Generators and Lighting	
	Preparation tools including electrical mer chisel, breakers, scarifiers, scabblers abrasive equipment	
•	Drilling tools	
• and	Hand held power tools including cutters grinders	
•	Power washing and pumping equipment	
•	Cement mixers	
• and	Wheel barrow, shovel, spade, pick-axe brushes	
• trow	Plaster mixers and plastering tools, vels, floats etc	
• wrea	Hand tools including hammers, mallets, cking bars	
• chise	Sharp edge tools including bolsters, els, knives, cutters, screwdrivers etc	
• cutte	Cutting tools including saws, snips, ers etc	
•	Measuring tools	
•	Etc	
Clea	n off loose material, remove old	
	ters/render and other surface materials.	
	use of a Club/Lump hammer, bolster and chisel.	
Safe	use of an electrical hammer chisel.	

Safe use of scarifying/scabbling equipment. Safe use of power washing equipment.

Wall and floor preparation is necessary for the installation of drainage components e.g. exposed reinforcement protection.

Examine exposed masonry and assess suitability for receiving waterproofing and drainage components.

Carry out pre-installation checks on the condition and installation of the drainage channels & inspection ports, spine drains, sump and drainage connections.

Carry out flood test of the system to test wall and floor membrane, drainage to ensure test water runs freely to sump and carry out remedial works should they be required.

Recognise and mark final positions of rodding and jetting access points for maintenance and service of the drainage channels.

Install the pumps, alarm system and battery back-up systems in accordance with manufacturer's instructions.

Connect pump outlet pipes to suitable drainage with approved connection.

Carry out inspection of channel, sump and pumps for debris and remove before testing. Final check of all pipe connections.

Check to ensure electrical installation has been carried out by appropriately qualified person.

Flood test system and commission pumps.

Check pipes, system and drainage for leakage and obstruction.

Check that the pumped water has discharged into suitable drainage.

Ensure all paperwork relating to the drainage system is handed over to the appropriate person e.g. service and maintenance schedules for system.

Identify different waste materials, segregate as necessary, bag up and store safely for disposal.

Dispose of contaminated or hazardous waste materials and product containers in line with employer procedures.

The reason why wall and floor preparation are necessary for the installation of drainage components e.g. exposed reinforcement protection.

How to examine exposed prepared masonry and floors and assess suitability for receiving waterproofing and drainage components.

How to carry out pre-installation checks on the condition and installation of the drainage channels & inspection ports, spine drains, sump and drainage connections.

How to flood test floor and drainage to ensure test water runs freely to sump and carry out remedial works should they be required.

How to mark-up final positions for rodding and jetting access points for maintenance and service of the drainage channels.

How to install pumps, alarm system and battery back-up systems in accordance with manufacturer's instructions.

How to connect pump outlet pipes into suitable drainage with approved connection. How to inspect channel, sump and pumps for debris and remove before testing.

How to check all pipe connections.

Be aware that an appropriately qualified person needs to connect electrics to pumps, alarms and battery back-up.

How to flood test system and commission pumps

How to check pipes, system and drainage for leakage or obstructions.

How to check that the pumped water has discharged into suitable drainage.

Be aware of the service and maintenance schedules for system.

Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.

	Check whether sign off Construction Quality Assurance site inspection has been carried out. Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
4.8	Prepare and install Gas Membranes (based on E Skilling Programme)	British Geomembrane Association Specialist Up-
	is a highly skilled specialized activity and is action Industry of today due to the release of Government directives for the construction of a crial units, shops, sports centres etc. ne and Carbon dioxide can infiltrate buildings and dangerous environments for inhabitants of the ane is explosive, and an asphyxiating gas and	
	Awareness of Gas Membranes – where hot works specified, these can only be applied with hot	
	works permit, extremely unlikely to be used by	
	Learner to demonstrate, list or state how to:	Learners need to know:
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments.
		now to amend and update Kisk Assessments.
	Read method statements and risk assessments associated with planned work procedures	How to identify Hazard Warning signs
	regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create	Action to take in the event of a spillage, accident or ingestion
	hazards.	Understand manufacturer/COSHH data sheets.
		Understand manufacturer/COSHH data sheets. Pre-installation measures and precautions necessary prior to starting work.
		Pre-installation measures and precautions
		Pre-installation measures and precautions necessary prior to starting work.

Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to take before and when working on a party wall.
Make equipment which generate heat available for inspection and state which fire extinguishers are to be available on site.	
Confirm if a hot works permit is needed and if so is in place.	
Identify storage areas for tools and resources.	How to identify storage areas for tools and resources
Identify and confirm plot location and drive vehicle with equipment and materials as near to location as allowed.	How to identify and confirm plot location a drive vehicle with equipment and materials near to location as allowed.
Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and reso and return vehicle to permitted parking are
Prepare the surrounding site with appropriate signage and locate crates for cleaning footwear prior to stepping into areas where gas membranes will be installed.	When and where to deploy appropriate wa notices, signage and barriers.
Overhead and underground services are identified, and locations marked around the work area.	Ensure the overhead and underground serv are identified and locations marked around work area.
Check specification against the site conditions to confirm base material and associated venting requirements are correct.	How to examine exposed prepared masonr floors and assess suitability for receiving membrane materials.
Identify the penetration points associated with drains venting, water, gas, electric.	
Installing venting media to include the following:	
Pipe and Gravel system	
Geo-composite	
Polystyrene	
Clean stone single size	
Block and Beam with Vented Void	
Clean air blanket	
Pressurized Passive Extraction	
Place aggregate 150mm depth in base of trench. Lay venting pipe and connect T pieces surround pipe work and fill trench.	
Check that T pieces are installed and at the correct centre, not near doorways, not obstructed by foundations.	
Blind above venting material.	

Make visual checks that the correct blinding materials have been used and correctly laid with appropriate finish.	
Visually check that there are no sharp objects on the areas where membrane is to be	
installed.	
No areas of ponding.	
Clean off mortar droppings on Block and Beam floors with scraper where necessary	
Sign off Sub-base Acceptance Form to be completed and provided to main contractor,	
Grounds works contractor and Environmental Engineer validating the installation.	
Select correct PPE:	
Hard hat	
Gloves	
Safety shoes	
Select Tools and Equipment:	How to select and safely use any equipment for work mentioned in the method statement.
• Hot Air Gun	
• Appropriate temperature settings where	
run up test	
Allow for warm up period allowing for:	
Regular temp checks	
Start up	
After lunch, any breaks	
Climatic conditions	
Thickness of membrane	
New rolls	
Moisture	
Identify Correct Membrane i.e. 1200 gauge, 1600 gauge Reinforced, 1600-gauge Foil Core Reinforced,1mm HDPE, 1mm LDPE, 1mm PP, 1.5mm HDPE.	
Make sample joint for quality assurance records highlighting method of jointing, materials and dates for retention by Main Contractor and Validation Inspector or	
Environmental Engineer and Installer.	
Cut samples for Archiving:	
200mm contractor	
200mm Installer	

Roll Out Membrane to applicable site dimensions and:

- Correct Manual Handling
- Check Direction of Membrane Measure
- Cut
- Final Placement
- Make the joints welded and taped
- Cut and form around penetrations

• Condition perimeter membrane and floor membrane to receive tape:

• Install Tape Make Joint

• Form Corners from full sheets, hospital corners,

• Install Preformed Corners, (Self-adhesive)

- Acoustic details
- Robust details
- Door openings
- External corner first
- Welded methods
- Cut around Service Entries
- Install Top Hat Pre-formed unit with gas tight
- Seal to pipework.
- Seal using SAGM to columns/pipes
- Clear site, dispose of cut of membrane in appropriate skips.

Physically inspect surface of membrane and identify areas of damage:

Pin holes Cuts Tears

Patch repair damage

Clean, condition, Radius and patch the area damaged

Patch with appropriate size patches i.e.

100mm 150mm laps

Cut out and radius prior to patching.

Identify different waste materials, segregate as necessary, bag up and store safely for disposal.

Collect, contain and dispose of waste correctly at appropriate waste disposal facility

Check whether sign off Construction Quality Assurance site inspection has been carried out.

Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.

Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
Validation and Inspection	Understand:
Learner to demonstrate, list or state how to:	Who the appropriate person is to carry out a Validation test.
Provide information that Install is ready to be validated.	That a Validation test must be independent or the company installing the membrane.
Provide the samples of welds carried out at the beginning of the contract.	The Validation and Testing procedures; how a why they are carried out covering the following the fol
Work with Validation Inspector and carry out patch repairs and provide information on installation process as requested.	Subgrade acceptance
Carry out patch repairs as and when identified	Venting media
Ensure Validator inspects patch repairs	Inlets & outlets in correct position
Take receipt of Validation test certificate/ report on successful inspection.	Point stress test (pick test)
Installer gets copy	Air lance
Installer forwards to main contractor	Pressure test
Contractor to main client filed in "Operation and Maintenance" file.	Tracer gas test
	Dielectric testingSmoke testing
	Making good prior to Validation Inspection.
	After inspection cover tape installation.
	Sign off as per company procedures.
	That a validation inspection can occur at any time.
	That experience and reputation can lead to a reduced number of validations being request
	Who must be provided with a Validation Certificate.
	Failure of one plot may lead to other plots requiring inspection.
Prepare for and apply concrete (Type B Waterp	roofing Systems).

Type B (structurally integral) protection as defined by BS8102:2009 (Code of practice for protection of below ground structures against water from the ground) where the structure itself is constructed as an integral water-resistant shell. Invariably built of reinforced concrete, the basement structure must be designed within certain strict parameters to ensure it is water resistant.

When considering and or specifying a Type B integral system, this should only be carried out where there is knowledge and understanding of waterproofing in relation to BS 8102: (2009) and in the case of concrete structures an understanding and competence in concrete construction. The water tightness of the Type B construction is reliant upon the design and construction of the basement as an integral shell, using a concrete of low permeability, and appropriate joint detailing.

Defects can be minimised by correct specification and design and by careful construction.

Concrete structures are constructed using metal structural formwork, Rebar - steel rods formed into metal frames of various thicknesses, designed to reinforce the concrete. Type B Waterproofing structures are generally formed of poured concrete reinforced floors and walls, although other concrete/metal structures such as steel piles, underpinning etc are used to construct the walls.

Learners to demonstrate, list or state how to:	Learners need to know
Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them. How to amend and update Risk Assessments.
Read method statements and risk assessments	How to identify Hazard Warning signs
associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and mixing/applying/using products that create nazards.	Action to take in the event of a spillage, accident or ingestion
	Understand manufacturer/COSHH data sheets.
Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.	
All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
Select and use safely the correct access equipment for the task.	Understand how to select and use safely the correct tools and equipment for the task
Identify storage areas for tools and resources	How to identify storage areas for tools and resources
Identify and confirm site location and position vehicle with equipment and materials as near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position with equipment and materials.
Unload vehicle and resources and return vehicle to permitted parking areas.	Understand how to unload vehicle and resources and return vehicle to permitted parking areas.

Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suita for the task.
Interpret plans and written instructions and identify wall(s) and floor(s) scheduled for waterproofing.	How to interpret plans and written instru
Deploy appropriate warning notices, signage and barriers.	How to identify Hazard Warning signs
	When and where to deploy appropriate v notices, signage and barriers.
Take appropriate measures to contain and control dust/fume and ventilate work area.	How to screen off, protect areas to contro
	How to use mechanical extraction equipn dust and fumes or passive equipment to work areas.
Comply with the Party Wall Act etc 1996.	Identify a party wall and precautions to ta before and when working on a party wall
The roles of the structural engineer, architect and waterproofing designer responsible for the design and function of the reinforced concrete slab, walls, piled walls, underpinning and waterproofing detail.	
Be aware of plans and written instructions relating to site investigation, water table, ground conditions, ground drainage, soil type and conditions, site de-watering and ground gases.	How to interpret plans and written instru from the structural engineer, architect an waterproofing designer for the design and function of the reinforced concrete slab, piled walls, underpinning and waterproof detail.
The role of ground works for site excavation relating to foundations and formation of reinforced floor slab.	Understand the role of ground works for excavation creating foundations and forn reinforced floor slab.
The role of ground works in formation of sheet piled wall construction forming sheet piled walls/ steel retaining walls.	Understand the role of ground works invo sheet piled wall construction forming she walls/ steel retaining walls.
The role of underpinning specialists in excavation and formation of underpinned walls.	Understand the role of underpinning species in excavation and formation of underping walls.
The function and construction of a reinforced concrete floor slab including the importance of a 'kicker' joint for wall formation.	Understand how a reinforced concrete flo including the importance of a 'kicker' join wall formation is constructed.
The basic function and construction of a reinforced concrete wall.	Understand how a reinforced concrete was constructed.
The function and construction of structural metal formwork and shuttering works for formation of reinforced concrete slab and wall formation.	Understand how structural metal formwork shuttering works for formation of reinfor concrete slab and wall formation is const

Materials and product(s) that will be required to construct formwork and shuttering in relation to the work specification.	Understand how to work out the amount of materials and product(s) that will be required to construct formwork and shuttering in relation to the work specification.
The function and construction of approved ground drainage for structural waterproofing and the role of external land drainage.	Understand how to excavate and construct appropriate and effective ground drainage.
The function and construction of rodding and jetting access points to maintain and service external land drainage.	Understand how to install and form effective rodding and jetting access points to maintain and service external land drainage.
Ensure the overhead and underground services are identified and locations marked around the work area before commencement.	Understand how to check that overhead and underground services are identified, and locations marked around the work area before commencement.
Check site conditions are conducive to concrete placement.	Understand how to check site conditions are conducive for concrete placement.
Identify the penetration points associated with drains, venting, water, gas, electric	Understand how to identify and mark up penetration points associated with drains, venting, water, gas, electric.
What Tools & Equipment are required:	How to select and safely use any equipment for preparatory work mentioned in the method statement.
• 110v equipment	
Generators and Lighting	
• Preparation tools including electrical hammer chisel, breakers, scarifiers. scabblers and abrasive equipment	
Drilling tools	
• Hand held power tools including cutters and grinders,	
Cement mixers	
• Wheel barrow, shovel, spade, pick-axe and brushes	
 Hand tools including hammers, mallets, wrecking bars 	
• Sharp edge tools including bolsters, chisels, knives, wire cutters, screwdrivers etc	
• Cutting tools including saws, snips, cutters, grinders etc,	
Measuring tools	
Concrete compaction and placement equipment	

CONCRETE

Concrete is pre-mixed and ordered to a quality-controlled specification and either delivered to site in pre-mix specialised vehicles or mixed on site using a site mixing plant. The pre-mixed concrete is either gravity dropped into formwork/shuttering or using booms that pump the concrete up from the vehicle container and deposit it into the formwork. Foundations and the reinforced floor of the concrete building are poured first. Service and Utility pipes are pre-installed before the concrete is poured. Once the floor and foundation have cured, the walls and pillars can be poured. Rebar from the floor is tied to the rebar set in the wall forms.

The most common defects are: permeable concrete; honeycombing through lack of compaction; contamination of or cold joints; cracks due to thermal contraction and shrinkage; poor and inadequate placement of waterbars, hydrophilic strips and joints.

Learners to demonstrate, list or state how to:	Learners need to know:
An understanding of reinforced concrete. Understand construction of structures using correctly specified concrete and concrete admixtures.	What is reinforced concrete.
Understand Insulated Concrete Formwork (ICF) Construction for Basements.	How to construct structures using reinforce concrete including Insulated Concrete Formwork (ICF).
Calculate the amount of concrete that will be required in relation to the work area/specification.	How to calculate the amount of concrete that will be required in relation to the work area/specification.
Make visual checks that all shuttering and formwork have been correctly erected for loading and pouring of concrete.	How to check that all shuttering and formwork have been installed correctly prior to loading and pouring concrete.
Check site conditions are conducive to concrete placement.	Understand how site conditions can affect concrete placement e.g. temperature.
Identify the penetration points associated with drains, venting, water, gas, electric and their correct preparation.	Check for any penetration points associated with drains, venting, water, gas, electric and have been correctly prepared.
Visually check that there are no sharp objects on the areas where membranes are to be used.	How to check for sharp objects to areas where membrane is to be installed.
Concrete - type, cement, sand, aggregates and water ratios together with additives to create 'Watertight concrete' in accordance with BS EN 8500: 2012.	Understand concrete - type, cement, sand, aggregates and water ratios together with additives to create 'Watertight concrete' in accordance with BS EN 8500: 2012.
Understand the principle of receiving and assessing correct concrete mix type at point of delivery, accepting or rejecting batches delivered to site.	How to receive and check correct concrete mix type at point of delivery, accepting or rejecting batches delivered to site.
Understand how to oversee unloading and optimum pour sizes of concrete mixes.	How to oversee the unloading and optimum pour sizes of concrete mixes.

	Understand how to download and cast concrete correctly into pre-formed structures; levelling and compacting correctly.	How to download and cast concrete correctly into pre-formed structures, levelling and compacting correctly.
	Construction joints, day joints, expansion joint, movement joints and typical installation joints.	Understand the importance of construction joints, day joints, expansion joint, movement joints and typical installation joints.
	Understand how to waterproof construction joints, e.g. hydrophilic strips, water bars, metal strips, etc.	How to waterproof construction joints, e.g. hydrophilic strips, water bars, metal strips, etc.
	Understand how to strike, dismantle shuttering and support formwork from cured concrete correctly.	How to strike, dismantle shuttering and support formwork from cured concrete correctly.
	Understand the causes and remediation of defects – cracks, honeycombing, cracking and lack of compaction and remedial options available.	What are the causes of defects – cracks, honeycombing, cracking and lack of compaction and the remediation options available.
	Assessment of suitability of all wall and floor surfaces to receive a waterproofing membrane.	How to assess all wall and floor surfaces have been prepared correctly to receive a waterproofing membrane.
	Identify different waste materials, segregate as necessary, bag up and store safely for disposal.	Understand the importance of safe disposal of contaminated or hazardous waste materials and product containers.
	Collect, contain and dispose of waste correctly at appropriate waste disposal facility.	
	Check whether sign off Construction Quality Assurance site inspection has been carried out.	
	Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
4.10	Dismantling and removing temporary work area	a protection and safety equipment
	Learners to demonstrate, list or state how to:	Learners need to know
	Locate authorised person to induct you on to site and make introductions	How to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them.

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		How to amend and update Risk Assessments.
	Read method statements and risk assessments associated with planned work procedures regarding working within deep structures, using tools and machinery, creating dust and dismantling materials that create hazards.	How to identify Hazard Warning signs
		Action to take in the event of a spillage, accident or ingestion
		Understand manufacturer/COSHH data sheets.
	Select and wear correct and suitable PPE for the tasks.	How to select and wear correct and suitable PPE for the task.
		When and where to deploy appropriate warning notices, signage and barriers.
	Take appropriate measures to contain and control dust/fume and ventilate work area.	How to screen off, protect areas to control dust.
		How to use mechanical extraction equipment for dust and fumes or passive equipment to ventilate work areas.
	Consider the work schedule and risk assessment regarding the Working at Height Regulations 2005.	
	All scaffold systems including mobile scaffold towers only to be dismantled by PASMA certified person	All scaffold systems including mobile scaffold towers only to be erected, adjusted or dismantled by PASMA certified person
	Identify and confirm site location and position vehicles near to location as allowed.	How to identify and confirm site location and safest, closest vehicle position for dismantling site equipment and materials
	Dismantle basic access equipment.	Understand how to dismantle safely site access equipment
	Dismantle safely site equipment.	Understand how to dismantle safely site tools and equipment
	Load vehicle and resources correctly.	Understand how to load vehicle and resources correctly.
	Safely dismantle and remove from site warning notices, signage and barriers.	How to Safely dismantle and remove from site Hazard Warning signs.
		How to Safely dismantle and remove from site warning notices, signage and barriers.
		How to Safely dismantle and remove from site any mechanical extraction equipment.
		How to Safely dismantle and remove from site tools and equipment for the task.

Identify different waste materials, segregate as necessary, bag up and store safely for disposal.	
Collect, contain and dispose of waste correctly at appropriate waste disposal facility.	Understand the importance of safe disposal contaminated or hazardous waste materials product containers.
Check whether sign off Construction Quality Assurance site inspection has been carried out.	
Check sign off in line with employer's procedures, i.e. clear site for last time; where feasible retain usable materials for re-use; safely load van; return to depot; unload tools and materials and record as appropriate; clean and store appropriately.	
Disposal of Waste	Disposal of Waste
	Learners need to know how to:
Adopt safe manual handling techniques, by practical application of lifting, pushing and carrying of waste loads.	Correct handling techniques including task assessment, where mechanical aids are avail to assist with waste movement.
As required secure waste materials in a safe location on site whilst awaiting permanent disposal.	Store waste material on site in a safe manne least likely to cause a hazard, injury or obstruction to others.
Segregate as necessary different waste types including hazardous /special waste.	What constitutes hazardous/special waste a specific requirements for its disposal
Dispose of waste correctly and know when to use designated waste disposal sites.	How to Identify different waste materials, segregate as necessary, bag up, store safely dispose of waste correctly at appropriate wa disposal facility
	How to dispose of contaminated or hazardo waste materials and product containers.
FINAL TESTING AND SIGN OFF	
The practicable and knowledge will be assessed Observation, Professional Discussion, Photogra Assessment Plan with the learner	
Each learner is to provide performance evidence in Structural Waterproofing VQ Level 2 in:	Job Knowledge:
Health & Safety on site.	Qualification Credit Framework Assessment following Units:
Handling & Storage on site.	VR 641
	VR 642
Documentation & Communication on site.	VIX 042
Site preparation.	VR 643

Application equipment preparation	Options (one of following)	
Carry out structural waterproofing	VR 360	
	VR 400	
	VR 401	
	VR 657	
	Professional discussion	
	Witness Testimony	

Final Sign Off

The penultimate visit, usually visit 3 during months 14 - 15 - ((see 4) Assessment) will include a check of the N/SVQ requirements and the drawing up of an action plan for the completion of the new entrant's individual N/SVQ Portfolio and final sign off the N/SVQ.

Section 9.0 Glossary of Terms

СІТВ	Construction Industry Training Board
сознн	Control of Substances Harmful to Health
CSCS	Construction Skills Certification Scheme
CSSW	Certificated Surveyor in Structural Waterproofing
DPC	Damp Proof Course

ealth and Safety at Work Act Iobile Elevated Work Platforms
laterial Safety Data Sheet
ational Occupational Standards
ational and Scottish Vocational Qualification
refabricated Access Suppliers' & Manufacturers' Association
ortable Appliance Testing
roperty Care Association
ersonal Protective Equipment
ualification Credit Framework

Section 10.0 Key Parties

PE29 6FY

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