

Water Industry Training Solutions



Including Water Networks, Waste Water Treatment, Sewerage Networks, Confined Spaces and Utility SHEA



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## Water Industry Training Solutions

### Introduction

Develop Training Ltd can offer a vast range of water training courses associated with all aspects of the water cycle. This includes water abstraction and production, network design engineering and operation, water and sewerage networks and waste water treatment. The changing nature of the water industry over the past 30 years means that much of our work now consists of bespoke programmes.

### Course Accreditations

Many of our programmes carry external accreditation by awarding bodies such as EU Skills, City & Guilds and CABWI

Through our own City & Guilds 5831 Utilities Operations Certification Scheme, we can work with you to design and deliver tailor-made training and assessment solutions based on your own requirements for all levels of staff including operational, technical, scientific and design subjects.



### Funded Learning

(Train to Gain and Apprenticeship Programmes)

Develop Training Ltd regularly works with the Sector Skills Council in the development of qualifications including the water engineering apprenticeship framework. With our ability to draw down funding direct from the learning and Skills Council (LSC) we can provide a wide variety of models to suit individual or company requirements.

### Our Training Centre Facilities/ On Site Assessment

All of our centres are approved for the delivery of City and Guilds courses and are specially equipped with a full range of tools and equipment to support learning. Many programmes can be delivered on customer premises.

Programmes can be designed to meet the specific needs of the client, covering all aspects of the learning cycle. This includes the training needs analysis, the design and delivery of the training and the final assessment in the workplace.



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## Management of Catchment Areas

<b>WS040</b> A Technical Introduction to Aquatic Environmental Quality Protection.	A foundation course in theory, policy and practice of water pollution control and related duties. This course is suitable for personnel from regulatory, water service and industrial backgrounds and enables participants to: understand UK environmental protection policy regarding the aquatic environment, the regulatory framework for its implementation and to provide the essential technical knowledge for the effective performance of their pollution prevention & control duties.	4 days Evening Work is included
<b>WS018</b> Algal Identification & Ecology for Water Framework Directive and Water Supply Purposes.	A comprehensive practical course covering algal identification, ecology, problems and control, with particular reference to the classification of surface water status as required by the 'EC Water Framework Directive' and control of algal populations in lakes and reservoirs used for water supply and the operation of treatment systems for algal laden waters. This course is suitable for scientists concerned with the monitoring of phytoplankton populations, especially those working to define ecological status of surface waters for 'EC Water Framework Directive' purposes and those involved in the management of water supply reservoirs and the operation of potable water treatment works.	4 days Evening Work is included
<b>WS041</b> River Quality Planning - Setting Consents and Assessing Performance.	A course to teach the principles of and methods for effluent discharge consent calculation, effluent quality performance assessment, and to explain how their application can result in improved quality planning. This course is suitable for: water quality planning staff in the Environment Agencies and their counterparts in Northern Ireland who are involved in setting effluent standards and/or the assessment of treatment works performance, planning staff who are involved in the development of capital investment programmes affected by river water quality and Water company staff involved in making applications for discharge consents and performance reporting. This is a technical planning course which teaches the underlying principles and methodologies used in quality planning for surface water. It does not cover legal and procedural aspects of granting and obtaining discharge consents and action required as a result of failing compliance conditions (these matters are dealt with in course LW009).	3 days Evening Work is included
<b>WS042</b> EC Environmental Water Quality Directives	This course covers current EC directives concerning the regulation and management of water utility and other industrial activities affecting and affected by the quality of water in the environment. This course is suitable for water quality officers, pollution inspectors, production and environmental managers and scientists and lawyers involved in environmental regulation or compliance with the EC Environmental Directives. The course is presented for Develop by staff from the Environment Agency's European team. Evening Work is included.	2 days Evening Work is included
<b>LW001</b> The Law Relating to Water Resources	This course covers the law including the new Water Act 2003 and is suitable for graduates and professionally qualified staff involved in the day to day interpretation and application of the law relating to water resources.	2 days Evening Work is included
<b>LW006</b> The Law Relating to Flood Defence	This course is suitable for graduates and professionally qualified staff who may be called upon to provide advice in the day to day interpretation of the law relating to flood defence or land drainage.	1 day
<b>LW009</b> The Law Relating to water Pollution Control	This course gives a detailed review of the Water Resources Act 1991, its various amendments and associated Regulations relating to the control of pollution of 'controlled waters'. This course would benefit graduates and professionally qualified staff working for the Environment Agency and others who require an understanding of the law and its application with regard to the prevention of pollution and discharge of wastes to 'controlled waters'.	2 days Evening Work is included

## Groundwater Protection and Development

<b>GW001</b> An Introduction to Hydrogeology	This course describes the basic principles of groundwater occurrence and flow and is suitable for: inexperienced staff concerned with regulation, location and abstraction of groundwater, also non-specialists in the environment agencies, water companies and consultants and contractors who assess resources and design and build abstraction schemes. This is a foundation course and is ideal as preparation for attending course GW002 (below) for those with no prior knowledge of groundwater movement.	1 day
<b>GW002</b> An Introduction to Groundwater Quality	This course ensures understanding of the principal factors, both naturally occurring and resulting from human and industrial activity, which control and modify groundwater quality. Suitable for technical staff in the environment agencies, water companies and other organisations who need to become involved in the issues relating to groundwater quality. Delegates should have a basic knowledge of groundwater occurrence and flow. Attendance on course GW001 (above) will greatly assist inexperienced staff to obtain maximum advantage from this course.	1 day
<b>GW005</b> Introduction to the Management and Development of Groundwater Resources	This course describes key aspects of groundwater management, and covers the range of techniques used for the location, estimation, abstraction and management of groundwater, together with essential administrative procedures. This course is designed for a wide range of staff who need to know how to manage and develop groundwater resources. Staff from the environment agencies will find the course of particular benefit, as will those involved in development, abstraction and borehole construction. Industrial water users who are considering developing groundwater resources on their sites as a cheaper alternative to public supply will benefit greatly. Attendance on Courses GW001 and GW002 (above) is advised before you take this course.	2 days Evening Work is included

## Reservoir Engineering

<p><b>ES001</b> Reservoir Supervision</p>	<p>This course covers how to supervise reservoirs under the 1975 Reservoirs Act. Primarily aimed at engineers who, subject to successful empanelment, will assume responsibility as reservoir supervising engineers within the terms of the Reservoirs Act 1975. This course is also suitable for engineering managers wishing to gain a detailed insight into reservoir supervision and related procedures and is designed to identify and develop the skills and knowledge required by the supervising engineer.</p>	<p>5 days</p>
<p><b>ES015</b> Soil Mechanics for Supervising Reservoir Engineers</p>	<p>This course is an update on current practice for Supervising Engineers and Design/Construction Engineers. Suitable for: Supervising engineers empanelled under the Reservoirs Act (1975), Civil Engineers seeking such appointment and Civil Engineers with responsibility for headworks, reservoir safety and remedial works it reviews soil mechanics practice and its application in embankment dam engineering and also to develop an understanding of embankment dam behaviour.</p>	<p>2.5 days</p>
<p><b>ES016</b> Hydraulics and Hydrology for Supervising Engineers</p>	<p>This course is an update on current practice for Supervising Engineers and Design/Construction Engineers. Suitable for: supervising engineers empanelled under the Reservoirs Act (1975), Civil Engineers seeking such appointment and also Civil Engineers with responsibility for headworks, reservoir safety and remedial works. The course develops an understanding of hydraulic engineering and flood hydrology and their application in dam engineering.</p>	<p>2.5 days</p>
<p><b>WT030</b> Reservoir Keeping</p>	<p>A course designed to develop reservoir keeping skills, covering duties and responsibilities of reservoir owners, surveillance techniques, reporting of defects, routine maintenance procedures, safety practices and emergency procedures.</p>	<p>2 days</p>

## Abstraction and Water Treatment Process

Course Code, Title	Description	Duration
<b>WA010</b> A Technical Introduction to the Supply Function.	A broad based course covering the legal duties regarding quality and sufficiency of supply and how these are met by water resource and development, water treatment and delivering to distribution networks.	4 days

## Potable Water Process and Treatment Works Design

<b>EP010</b> Water Treatment Works Design - Fundamental Processes	This course covers the treatment process selection and the design of effective treatment systems for the production of water of potable quality. Suitable for engineers and scientists involved in design and specification of works, who have little water supply background the course includes a substantial content of water treatment science.	5 days
<b>EP014</b> Water Treatment Works Design - Advanced Processes	This course covers how to design a range of recently introduced processes to meet new quality challenges. Suitable for engineers and scientists involved in plant specification and design, Treatment engineers and scientists who manage the operation of advanced water treatment plant.	5 days

## Potable Water Process Operations

<b>WT011</b> Potable Water Treatment Process Operations	This course explains the technical and practical aspects of potable water treatment, the processes involved in producing potable water and is suitable for: managers, technicians, team leaders and operatives who require an understanding of the principles, practices and processes involved in water treatment. The course starts with basic principles but quickly develops to a technical level sufficient for the efficient and effective operation of a water treatment plant. The course will also provide knowledge and understanding needed for either the NVQ Level 2 qualification or the City & Guilds 5831 qualifications. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>WT016</b> Water Treatment Process Science and Operational Practices	This course covers the scientific aspects of water treatment, the principles of relevant water treatment processes, the plant and operational practices used. Suitable for: scientists, engineers and technicians who require a comprehensive description of water sources, treatment process theory and practice it is an advanced course with a greater depth of scientific content than course WT011 and WT012. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>WT012</b> Control of Water Treatment Processes	A course for operators and supervisors who have direct control of water treatment plants that use aluminium or iron salts for coagulation and flocculation and who are responsible for setting, adjusting and monitoring chemical dose rates to optimise processes. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days

Distribution		
Course Code, Title	Description	Duration
<b>LW008</b> The Law Relating to Water Distribution	A course designed for engineering and operations staff who are responsible for the management of distribution systems including the design and supervision of mainlaying projects. Please visit our website, or telephone for details of items delegates need to bring for this course.	2.5 days Evening work is included
<b>WA011</b> A Technical Introduction to the Distribution Function	This course describes modern water distribution practice, regulatory constraints and technical issues and is suitable for staff, typically of technician level, with little previous experience of the distribution function and whose work requires them to have a technically based understanding of the subject. It introduces participants to the work involved in the distribution function and illustrates the current main activities, techniques and technologies. Please visit our website, or telephone for details of items delegates need to bring for this course.	2.5 days
<b>WA018</b> A Practical Appreciation of Mainlaying and Servicelaying Skills	This course is an introduction for non-manual staff to the skills of mainlaying and servicelaying. The course will benefit: support staff who interact with the workforce, engineering & technical staff involved in the design and supervision of mainlaying and servicelaying projects who need an understanding of pipelaying skills. Please visit our website, or telephone for details of items delegates need to bring for this course.	2.5 days
Water Networks Design		
<b>EM002</b> Water Pipeline Hydraulics	This course provides an understanding of basic hydraulic principles and calculations and is suitable for technicians and other distribution staff engaged in pipeline design and operation. Participants should be mathematically competent to GCSE level or similar standard and possess a basic understanding of algebra. The course provides an understanding of the basic hydraulic principles relating to the design, operation and maintenance of water supply and distribution networks and to enable participants to undertake pipeline hydraulic calculations. This course is a foundation course for EM003 and EM004 (below) and will emphasise the problems encountered within distribution systems. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>EM003</b> Design of Residential Distribution Network Mains and Extensions	This course demonstrates how to design distribution schemes using the most suitable materials cost effectively, follows on from Course EM002 and is suitable for technicians and other staff engaged in distribution mains design. Delegates should have attended course EM002 Water Pipeline Hydraulics or have a reasonable working knowledge of pipeline hydraulics. The course will enable participants to design and administer mainlaying schemes and to detail a residential distribution mains layout. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>EM004</b> Large Diameter Mains	This course is a design & construct guide for distribution & trunk mains and is suitable for engineers and technicians responsible for the specification & construction of water mains carried out by either direct or contract labour. Delegates should have attended course EM002 Water Pipeline Hydraulics or have a reasonable working knowledge of pipeline hydraulics. The course develops an understanding of current water main specification and construction practice. The course covers all aspects from specifying materials through to the commissioning of the pipeline. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>EM032</b> The Design of Pumping Systems	Suitable for engineering staff from civil, mechanical or electrical disciplines this course considers the design aspects of typical pumping systems using examples taken from the water supply, sewerage and sewage disposal fields. Consideration can be given to the land drainage function. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days

## Water Networks

<b>OP211</b> Service Pipe Installation	This course provides basic skills in service pipe installation including under pressure connections and is suitable for servicelayers who require the skills of laying new service pipes. The course provides basic skills and knowledge required to lay new service pipes using copper and polyethylene (PE). Please visit our website, or telephone for details of items delegates need to bring for this course.	5 days
<b>OP213</b> Service Pipe Repairs and Modifications	This course covers techniques used for maintenance, modification or repair of service pipes, and is suitable for servicelayers who require skills in the maintenance, alteration and repair of existing service pipes and who have completed course OP211, or have equivalent experience. This course provides basic skills and knowledge required for service pipe repairs and alterations. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>OP220</b> Mainlaying	This course covers basic skills in identification, cutting, laying and jointing of mains and is suitable for mainlayers requiring the skills of laying and jointing mains (below 200mm). The course provides basic skills and knowledge required to cut, lay and joint water mains using all current materials. Please visit our website, or telephone for details of items delegates need to bring for this course.	5 days
<b>OP221</b> Mainlaying Repairs and Modifications	This course covers the insertion of tees, hydrants, valves and repairs and is suitable for mainlayers requiring skills and knowledge in the repair and alteration of mains who have completed course OP220, or have equivalent experience. The course provides basic skills and knowledge required for the repair, maintenance and alteration of mains and the insertion of tees, hydrants and valves. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>OP223</b> Butt Fusion Jointing and Electro Fusion of Mains and Services	This course covers the jointing of PE Pipes using butt fusion and electro fusion methods, and is suitable for servicelayers and mainlayers requiring butt fusion and electro fusion jointing skills, using manual, semi and fully automatic machines. The course provides the knowledge and skills required to join polyethylene pipe safely using Butt Fusion and Electro Fusion techniques. Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days
<b>OP224</b> Installation and Laying of Composite Mains and Services in Contaminated Ground	This course covers the jointing of composite pipes using butt fusion, electro fusion and mechanical methods in contaminated ground. Suitable for servicelayers and Mainlayers with City & Guilds units 152, 154 and 234 or equivalent qualifications requiring an update in butt fusion. The course provides knowledge and skills required to join composite pipe safely using butt fusion, electro fusion and mechanical techniques. Please visit our website, or telephone for details of items delegates need to bring for this course.	1 day
<b>OP023</b> Large Diameter Mainlaying	This course covers the laying and jointing of large diameter mains and is suitable for mainlayers requiring skills and knowledge in the laying of large diameter pipes. The course provides skills and knowledge needed to lay, joint and dismantle pipes within a trench complex. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>OP024</b> Large Diameter Mains Alterations	The installation of branches and valves using power driven cutting machines.	2 days
<b>EM005</b> Commissioning of Water Mains	This course covers the systematic sequence of steps required for the proper commissioning of water mains from testing through to microbiological sampling. Suitable for staff at technician level involved in the commissioning of water mains or the supervision of staff undertaking such operations. The course provides participants with a working knowledge and a legal understanding in order to supervise commissioning of water mains. Please visit our website, or telephone for details of items delegates need to bring for this course.	2.5 days
<b>WH001</b> National Water Hygiene Scheme	This course includes classroom based tuition, discussion and testing, for the National Water Hygiene Scheme and is suitable for persons who come into contact with potable water in connection with their daily work. The course aims to ensure individuals reach a nationally agreed level of training, awareness, testing and medical clearance. Successful candidates will be awarded a National Water Hygiene Scheme card valid for three years. This course can also be run on site if required.	0.5 day
<b>SHEA</b> Utilities SHEA	This course includes classroom based tuition, discussion & testing for Safety Health & Awareness in line with Health & Safety Executive guidelines and is affiliated with CSCS to enable access to construction sites for water and gas industry workers, successful candidates will be issued with a utility SHEA card in their respective field.	1 day

## Water Services Operations - Distribution Control

<b>OD413</b> Pressure Reducing and Sustaining Control Valve Maintenance	This course covers the maintenance, commissioning and re-adjusting to new pressure settings and is suitable for anyone required to maintain, commission, adjust and install PRV/PSV control valves. The course provides knowledge and skills needed to maintain, commission, adjust and repair specific valves in the water industry. This course includes assessment and certification for City & Guilds Unit 276 Maintenance of pressure reducing and sustaining control valves. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>WN003</b> Understanding Water Distribution Networks Operations for new Distribution/Networks Inspectors	This is a background course for delegates who require the skills and knowledge to carry out operations on water distribution networks. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>WN010</b> Leakage Control and Detection	This course is for delegates who require the skills and knowledge to detect underground leaks using acoustic leak detection equipment. The course provides skills and knowledge required to detect underground leaks using acoustic leak detection techniques. Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days
<b>WN011</b> Mains Cleaning (Flushing)	This course is for delegates who require the skills & knowledge to cleanse mains using flushing techniques. Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days

Course Code, Title	Description	Duration
<b>WN012</b> Mains Cleansing (Air Scouring)	This course covers the skills and knowledge required to cleanse mains using air scouring techniques. Delegates can be assessed and if successful be awarded the City & Guilds and Develop Utilities Operations Certificate in Water Inspections - Mains Cleansing (Air Scouring). Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days
<b>WN013</b> Mains Cleansing (Swabbing)	This course covers the skills and knowledge required to cleanse mains using swabbing techniques. Delegates can be assessed and if successful be awarded the City & Guilds and Develop Utilities Operations Certificate in Water Inspections - Mains Cleansing (Swabbing). Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days
<b>WN018</b> Disinfection of Water Mains	This course covers the skills and knowledge required to undertake the disinfection and sampling of water mains. Delegates can be assessed and if successful be awarded the City & Guilds and Develop Utilities Operations Certificate in Water Inspections - Disinfection of Water Mains. Please visit our website, or telephone for details of items delegates need to bring for this course.	2 days
Water Fittings Regulations and Water Systems Safety		
<b>WR001</b> Conversion Course for Qualified/ Experienced Byelaws Inspectors	A short course for experienced staff who need to upgrade their existing C&G Byelaw qualifications (5971 or 5976) to meet the requirements of the Water Supply (Water Fittings) Regulations 1999. Successful candidates will receive a City & Guilds Certificate. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days Involves some evening work
<b>WR009</b> 'Type BA' Verifiable Reduced Pressure Zone Device Testing	A training course for those who are either required to test RPZ valve assemblies on behalf of installers or persons who are required to monitor and check the testing of RPZ assemblies. Successful candidates will receive a City & Guilds Certificate. Please visit our website, or telephone for details of items delegates need to bring for this course.	2.5 days
<b>WR09R</b> 'Type BA' Tester Re-certification/ Re-assessment Verifiable Backflow Preventer with Reduced Pressure Zone	A course for persons who have held their certificate for three years or longer and require re-certification. Testers who require to use a different test method or testers who require an update of their current knowledge and practices. This course is also suitable for delegates who were not successful on a previous assessment. The water industry requires that personnel who test Type BA Backflow Preventers are approved for this purpose. At the conclusion of this event delegates may undertake either, or both, a practical and/or theoretical assessment as required which, if successful, will result in the awarding of a Develop certificate and City & Guilds Accreditation approved by the Water Industry for the purpose of being an 'Approved Tester'.	1 day
<b>WR012</b> Enforcement of the Water Supply (Water Fittings) Regulations 1999	This is a comprehensive course for staff who are, or will be, responsible for enforcement of Water Regulations. The four sections of this course can be delivered as free standing modules, each of which provides successful candidates with a City & Guilds Unit Credit. Successful candidates will receive a City & Guilds Certificate.	8 days Evening work is included
<b>BS005</b> The Disinfection of Water Supply Systems within Buildings	This course covers the safe disinfection of water systems in accordance with ACOP and Guidance notes on Legionellosis and BS6700 1997 and is suitable for staff, supervisors or maintenance contractors required to carry out or hold responsibility for disinfection work.	1 day
<b>BS006</b> Legionella Awareness and System Monitoring Requirements	This is a short course for staff who are involved in the implementation of the written scheme and who are responsible for maintaining site log books. The course provides delegates with background knowledge of Legionella and to enable them to manage and implement the monitoring requirement of water systems to ensure ACoP compliance.	1 day
<b>BS007</b> Reducing Water Consumption in Commercial and Industrial Premises	A course for building owners, premises managers and consultants who are looking for ways to use water more efficiently and reduce costs.	1 day
<b>BS010</b> Unvented Domestic Hot Water Systems (NIC Certification)	A course for installers and maintenance/service engineers who need to demonstrate competence in the installation of systems as required by Section G3 of the Building Regulations.	2 days
<b>BS012</b> Water Regulations for Building Services Personnel/Contractors	A short course for anyone involved in the design, maintenance and installation of water systems to ensure compliance with new legislation and standards. This course has City & Guilds of London Institute Certification for successful candidates.	2 days
<b>WR007</b> Water Regulations for Team Leaders and Line Managers	A short course for those involved in the supervision of staff engaged in the enforcement of the Water Supply (Water Fittings) Regulations 1999, covering the practical interpretation of the regulations and the legal aspects of their enforcement.	1 day
<b>WR013</b> Water Supply (Water Fittings) regulations 1999	BPEC distance learning course for Water Supply (Water fittings) regulations 1999. Who will benefit? practising plumbers wishing to become approved contractors / plumbers, water inspectors and anyone involved in the installation, design or specification of water systems. A training package consisting of twelve modules will be sent to the candidate at least four weeks before attending the training centre for a half day training session followed by a half day assessment. Successful candidates will receive a BPEC Water Regulations Advisory Scheme (WRAS) certificate.	1 day

## Sewerage Networks

Course Code, Title	Description	Duration
<b>LW004</b> The Law Relating to the Operation and Construction of Sewerage Systems	An examination of current legislation suitable for any member of staff who is called upon to give assistance and practical advice in the day to day interpretation of the law relating to sewers. The course examines current legislation on sewers in England and Wales, provides general guidelines on the interpretation of the law and the course content is supported by reference to case law and practical examples to support learning. In addition to the open courses, this course can be varied to suit client needs and can be adapted for Operations, Engineering or Development.	2 days
<b>EM011</b> Design of Small Sewerage Systems	This course covers how to design schemes with pipe sizes up to approximately 600mm diameter and is suitable for engineers and technicians who are mathematically competent to at least ONC standard. The course is particularly useful for graduate engineers under training who have little experience of sewerage design. The course examines the hydraulic design procedures for foul and surface water sewers, and to investigate the pipe materials, structural design, jointing methods, bedding and ancillaries required to provide an effective sewerage system. Please visit our website, or telephone for details of items delegates need to bring for this course.	3 days
<b>EM012</b> Design of Small Sewage Pumping Stations	This course is for engineering staff concerned with the design of sewage pumping stations including those provided under Sections 102 & 104 of the Water Industry Act 1991. The course covers the various design aspects of small sewage pumping installations with particular reference to the Water UK/WRC publication, Sewers for Adoption - a design and construction guide for developers. Please visit our website, or telephone for details of items delegates need to bring for this course.	1 day
<b>EM024</b> Sewers for Adoption	This course is a two-day sewerage workshop covering problems faced by adopting authorities and developers and is suitable for engineers and technicians engaged in sewerage design for housing developments and those checking submissions for approval. The course provides a forum for discussion between the relevant parties and reinforces the juxtaposition of the sewer builder and adopting authority; it highlights the partnership and interplay between the two. Detailed comment and opinion is provided, concentrating on the provisions of the current version of Sewers for Adoption, and the problems concerned with the inspection of sewers under construction.  The course is based on English law and is not appropriate to those working in Scotland or Northern Ireland. As the course covers basic section 104 procedures, it is suitable for those with little prior knowledge. However, it also specifically explores and develops areas of difficulty and conflict which would benefit people with a reasonable degree of previous experience.	2 days
<b>EM017</b> Source Control Techniques for Sustainable Urban Drainage	This course is suitable for staff of the Environment Agency, sewerage undertakers, Local Authorities and engineering consultancies and contractors who require further information relating to the most practical and popular methods of source control. This course covers UK and international best practice for the development of sustainable urban drainage systems, including some calculations relating to techniques of source control. Please visit our website, or telephone for details of items delegates need to bring for this course.	1 day
<b>EM023</b> Pipe and Brick Sewer Condition Classification for Engineers	A skills certification course.  Engineers/technicians, site supervisory staff from district councils, water companies and contractors who are responsible for the supervision/quality control of CCTV sewer surveys and need a working knowledge of the WRC Manual of Sewer Condition Classification - 3 <sup>rd</sup> edition.  To provide a basic understanding of pipe/brick sewer identification and classification and to look at the fundamentals of good survey planning, tendering, control and evaluation.  Course members are requested to bring a copy of the WRC Manual of Sewer Condition Classification - 4 <sup>th</sup> edition (available from the WRC Tel: 01793 865000) and a copy of the Model Contract Document for non-man entry sewer inspection (4 <sup>th</sup> edition 2005). A good quality colour monitor and playback facility (VHS) capable of resolving a minimum of 250 lines and having a good 'pause' facility, complete with all leads, must be brought. Evening work is included.	3 days
<b>EM032</b> The Design of Pumping Systems	Engineering staff from civil, mechanical or electrical disciplines.  To consider the design aspects of typical pumping systems using examples taken from the water supply, sewerage and sewage disposal fields. Consideration can be given to the land drainage function.  Course delegates should bring a calculator with them to the course. The course will include some evening sessions and will conclude with a group design study exercise.  The tutorial staff will include consultants, practising engineers and guest speakers from specialist equipment suppliers.	4 days
<b>OS005</b> Operation and Maintenance of the Sewer Network	Supervisors, graduates and engineers who are new to sewerage systems and responsible for their maintenance and repair or are responsible for the contractors carrying out this work.  To provide understanding of the methods used for sewer maintenance, repair and renovation.	3 days

Course Code, Title	Description	Duration
<b>OS19X</b> Pipe Sewer Condition Classification	<p>A one week skills certification course. This qualification is equivalent to the OS20X.</p> <p>Trainee CCTV Survey Team Leaders/Rig Managers, Quality Controllers and those with little or no experience of classifying pipe sewer condition to the WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition. This course provides persons with little or no experience with an opportunity to devote their attention to the important features and technology of pipe sewer classification work. Specifically, more time and practice will be given to the 'from the screen' coding requirements than is available on the shorter OS20X 'refresher' course.</p> <p>The WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition is supplied as part of the course. A good quality colour monitor and playback facility (VHS) capable of resolving a minimum of 250 lines and having a good 'pause' facility, complete with all leads, must be brought.</p> <p>Candidates will sit the post course examination on the Friday morning, and some evening work will be undertaken, enabling more time to be devoted to individual instruction.</p> <p>The examination tapes have been endorsed by the appointed representatives for the water industry, and a pass is deemed the minimum acceptable standard of operator competence after training.</p> <p>The examination papers are processed and analysed by a panel including a representative from the National Sewerage Association. Candidates will be awarded a certificate if they satisfactorily complete a pipe survey to the standard laid down by the Water Industry in the WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition.</p>	4 days
<b>OS20X</b> Pipe Sewer Condition Classification - Refresher course	<p>This is a skills certification course, the qualification is equivalent to the OS1 9X and is suitable for CCTV Survey Team Leaders/Rig Managers and Quality Controllers responsible for classifying pipe sewer conditions to the WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition. The course is designed to review pipe sewer condition classification to the Manual of Sewer Condition Classification - 4<sup>th</sup> edition. The instruction is centred on the computerised classification system and how to apply it to pipe sewers. It is recommended that all candidates have had at least six months' supervised on-site training and experience in picture interpretation before attending this 'refresher' course.</p> <p>The WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition is supplied as part of the course. A portable colour monitor and playback facility (VHS) capable of resolving a minimum of 250 lines and having a good 'pause' facility, complete with all leads, must be brought.</p>	2.5 days
<b>OS21X</b> Brick Sewer Condition Classification	<p>A skills certification course suitable for CCTV Survey Team Leaders/Rig Managers and Quality Controllers responsible for classifying brick sewer conditions to the WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition. The course gives instruction in brick sewer condition classification to the WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition. The instruction is centred on the computerised classification system and how to apply it to brick sewers. It is recommended that all candidates have had at least six months' supervised on-site training and experience in picture interpretation before attending this 'refresher' course.</p> <p>The WRc Manual of Sewer Condition Classification - 4<sup>th</sup> edition is supplied as part of the course. A portable colour monitor and playback facility (VHS) capable of resolving a minimum of 250 lines and having a good 'pause' facility, complete with all leads, must be brought.</p>	2.5 days Includes evening sessions
<b>OS022</b> Inspection & Maintenance of Private Drainage Systems	<p>This course is suitable for operatives and technicians who are required to work on/maintain part of the sewerage/drainage system and are required to have skill and knowledge in Customer Care, Jetting Operations and CCTV Inspections. The course provides practical training in Customer Care, Jetting Operations and CCTV Inspections of Private Drainage Systems. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	4 days
<b>OS024</b> CCTV Inspections - Private Drainage Systems (Practical Camera Inspection)	<p>This course is suitable for operatives and technicians who are required to carry out CCTV inspections of private sewers and drains (not in the ownership of a sewerage undertaker). The course provides operators and technicians with the practical skills and knowledge to conduct CCTV surveys of private sewers and drains. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	2 days
<b>OS026</b> Sewer Mapping Site Survey Procedures	<p>A skills certification course with assessment on how to carry out accurate and comprehensive manhole surveys on site. This course is suitable for Field survey team leaders responsible for manhole surveys in accordance with NWC Publication STC25 "Sewer and Water Main Records" and the WRc/WAA "Model Contract Document for Manhole Location surveys and the Production of Record Maps". Reference will be made to the Manual of Sewer Condition Classification Part B – Manholes and Inspection Chambers. This course provides training on the field survey aspects of manhole surveys, explains the office processes for production of final maps and provides an appreciation of the uses of the finished maps and data. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	2 days
<b>OS027</b> Cure In Place Pipe Linings (Ambient Cure) using Gadmon Industries Products	<p>This course is suitable for operators and technicians who are required to renovate private drainage systems using CIPP lining techniques (ambient cure) as supplied by Gadmon Industries. The course provides operators and technicians with the skills and knowledge to carry out CIPP lining techniques (ambient cure). Pipe diameters will generally be limited to 150mm. This course is part of a joint initiative between Gadmon Industries and Develop and part of a series aimed at developing the skills of operators in pipeline renovation techniques.</p>	2 days
<b>OS028</b> Installation of Structured Wall Sewer Pipe using the Ultra Fortis Pipe System	<p>This course, which is part of a joint initiative between Uponor and Develop, forms part of a series aimed at developing the skills of operators in installing structured wall sewer pipes. It's suitable for operators and technicians who are required to install structured wall sewer pipe using the Ultra Fortis Pipe System. This course provides operators and technicians with the skills and knowledge to install structured wall sewer pipe to the Water Industry Specification 4/35/01. Pipe diameters will be generally limited to 150mm. Following successful completion of the course assessments, an application will be made to City &amp; Guilds for accreditation to this unit under the C&amp;G 5831 Utilities Operation Certification Scheme.</p>	2 days

Course Code, Title	Description	Duration
<b>OS30X</b> Pipe Sewer Classification Conversion Course (MSCC 4th Edition)	Suitable for Rig Managers/Team Leaders, Quality Controllers and those experienced and certified to the WRc Manual of Sewer Condition Classification - 4th edition (MSCC4). This course enables existing holders of OS2 0X or OS1 9X qualifications to update their knowledge and skills in the identification of new and modified coding systems to the standards laid down by the Water Industry in the WRc Manual of Sewer Condition Classification - 4th edition. Candidates will sit a post course assessment and will be awarded a replacement certificate on satisfactory completion and verification to the standards laid down by the Water Industry in the Manual of Sewer Condition Classification - 4th edition.	1 day
<b>OS016</b> High Pressure Water Jetting Safety Awareness Course	A theoretical course with assessment in the awareness of the safety aspects of jetting equipment & applications, and the use of jetting equipment in drain, sewer and surface cleaning operations. This course is suitable for those involved in the use and supervision of high pressure water jetting equipment for cleaning drains, sewers, pipes, culverts, tanks and manholes. The course provides practical training in the safe effective use of jetting equipment and the supervision of jetting equipment and operations. A certificate of Training Achievement by The water Jetting Association will be awarded to those who pass the theoretical and practical assessments. Please visit our website, or telephone for details of items delegates need to bring for this course.	1 day
<b>OS017</b> Drain and Sewer Cleaning with High Pressure Water Jetting	A practical course with assessment in the use of jetting equipment in drain, sewer and surface cleaning operations.  Those involved in, or about to become involved in, the use and supervision of high pressure water jetting equipment for cleaning drains, sewers, pipes, culverts, tanks and manholes.  To provide practical training in the safe, effective use of jetting equipment and the supervision of jetting equipment and operations.  Participants should bring with them a safety helmet, face visor to BS2092 Grade 1, ear defenders, a waterproof suit, safety wellingtons and waterproof gloves.	2 days
<b>OS018</b> Surface Cleaning and Cutting with High Pressure Water Jetting	The course provides practical training in the safe and effective use of jetting equipment for surface and tube cleaning and cutting operations and the supervision of these operations. Successful assessment leads to award of the Water Jetting Association's Certificate of Training Achievement.	2 days
<b>OS40</b> Maintenance of Vacuum Sewerage Systems	This course provides the skills and knowledge required for technicians to diagnose and remedy faults on vacuum systems. Training is carried out on our unique purpose build training rig allowing various problems scenarios to be resolved on a fully working system.	2 days

## Wastewater Treatment

Course Code, Title	Description	Duration
<b>WA012</b> A Technical Introduction to Wastewater Treatment	This course provides a sound technical understanding of current sewage treatment practices including process knowledge and operating procedures and is suitable for staff of at least technician level with little previous experience of the principles and practice of sewage treatment and whose work requires them to have a technically based understanding of the subject. Staff directly involved in plant operation are recommended to attend course ST001, Wastewater Treatment Process Operations. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>Waste Water Process &amp; Treatment Works Design</b>		
<b>EP001</b> The Basis of Sewage Treatment Works Design	This is a foundation level programme teaching delegates how to select a treatment process and design effective treatment systems using empirical factors. Suitable for engineers, higher technicians and designers who are new to sewage treatment process design. Please visit our website, or telephone for details of items delegates need to bring for this course.	5 days
<b>EP021</b> An Introduction to Process Engineering for Wastewater Treatment	An introduction to the basic tenets of process engineering to demonstrate their importance in wastewater treatment process design for both new and existing works. The production and use of Process Flow Diagrams and Mass Balance calculations will be described.	1 day
<b>EP022</b> Designing Solids Separation Systems	The design of effective and reliable systems for the separation of solids which is essential to the success of downstream wastewater treatment processes and for the successful treatment and recycling of derived solids.	1 day Evening work included
<b>EP023</b> Designing Fixed Film Systems for Biological Treatment	A comprehensive look at the process design of conventional and plastic media treatment systems including trickling filters, submerged aerated filters, biological aerated filters and rotating biological contactors. Their capabilities and suitability for a wide range of duties will be assessed and discussed from roughing through to tertiary nitrification. Please note that denitrification and phosphorus removal will be covered in module EP026 Designing Nutrient Removal Systems.	2 days Evening work included
<b>EP024</b> Designing Suspended Growth Continuous Flow Systems for Biological Treatment	The process design of activated-sludge systems will be described in detail, including operational aspects, in order to achieve low capital and operational costs and to achieve effluents of high quality reliably.	2 days Evening work included
<b>EP025</b> Designing Sequencing Batch Reactor Systems for Biological Treatment	This course covers the process of an activated-sludge system designed to operate in a timed sequence of fill, aerate and react, settlement of activated sludge and finally decant of effluent will be described. Operational aspects are included, in order to achieve low capital and operational costs while reliably maintaining effluents of high quality. Delegates should have attended course EP024 (above).	1 day
<b>EP026</b> Designing Nutrient Removal Systems	This course covers the design of nutrient removal systems at wastewater treatment works to meet the requirements for effluent discharge to UWWTD designated 'sensitive areas', and English Nature defined aquatic SSSIs affected by eutrophication. The aim of the course is to introduce the concepts of nutrient removal, to review the options available to the process designer and to discuss the practical aspects of achieving consent standards. Course participants will be able to evaluate process options for retrofit and greenfield situations.	2 days
<b>EP027</b> Designing Disinfection & Other Tertiary Processes for Effluent Quality Enhancement	Detailed descriptions of and design methods for effluent disinfection systems and tertiary BOD and suspended solids removal (effluent polishing).	2 days Evening work included
<b>EP028</b> Designing for the Minimisation, Treatment and Recycling of Biosolids	A description of the principal viable processes currently available for the production of recyclable biosolids from wastewater sludges, presented with associated process design details using spreadsheet calculation methods.	2 days
<b>EP029</b> Designing for the Minimisation and Treatment of Odours	Understanding how to prevent the formation of odours and their regulation, minimisation and control at wastewater treatment works (WWTWs) and sewerage systems.	1 day
<b>EP003</b> Hydraulic Design of Sewage Treatment Systems	This course is an exploration of the basis and calculation of flows in a works, and the effects on hydraulic profile of the constituent parts of the works. The course is suitable for design engineers responsible for the design and specification of works. Delegates must have experience of public health engineering and will be familiar with basic treatment works design principles, preferably having attended course EP001. The course is also suitable for higher technicians working in design teams and designers from other functions who have a basic knowledge of treatment processes. Participants must have a knowledge of hydraulics equivalent to that of a higher education course containing either hydraulics or fluid mechanics. The course explores the basis and calculation of flows in a works determining a hydraulic profile by assessment of head losses through the constituent parts of the works. The teaching emphasis is on the practical application of sound hydraulic theory where this is available. Empirical or 'rule of thumb' methods will be used where it is not. Use will be made of design calculations whenever possible to illustrate methods of approach and the application of design criteria to the sizing of units. A scientific calculator, capable of raising a number to a fractional power will be required on the course.	4 days

## Waste Water Process Operations

<b>ST001</b> Hydraulic Design of Sewage Treatment Systems	This course explains the technical and practical aspects of wastewater treatment, the processes involved and the effects of discharges on the environment. Suitable for managers, technicians, team leaders and operatives who require an understanding of the principles, practices and processes involved in wastewater treatment. The course starts with basic principles but quickly develops to a technical level sufficient for the efficient and effective operation of a wastewater treatment plant. This course provides the knowledge and understanding needed for either the NVQ Level II qualification or the City and Guilds 5831 qualifications and provides the delegate with the knowledge needed to understand fully the processes involved in wastewater treatment and the practices associated with them. Particular attention will be paid to operational considerations. To demonstrate the importance of maintaining wastewater treatment plant performance and consent compliance and the likely impacts of failure on the aquatic environment. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days
<b>ST007</b> Trade Effluent Treatment & Industrial Water Management	This course covers waste minimisation techniques applied to industrial water use and treatment methods for most types of industrial effluents. The course is suitable for staff involved with managing process use of water in industry and with trade effluent treatment who need to understand the problems and be aware of the solutions. It's also suitable for those who are involved in advising dischargers of industrial effluents as to water economy and the best methods of effluent treatment and disposal, staff of sewerage undertakings and environmental agencies involved in regulatory work. It is preferable that delegates already have some experience of waste water or effluent treatment. Please visit our website, or telephone for details of items delegates need to bring for this course.	4 days Evening work is included
<b>ST015</b> Biological Control of Sewage Treatment Processes	This course covers how to perform simple microscopy to make biological observations and use them for effective process control. Suitable for operators who wish to carry out simple biological examinations of samples from biological filtration, RBC and activated sludge treatment plants to help them optimise treatment, identify problems associated with inappropriate process biology and select and apply effective remedial action. The course is centred around practical examination and microscopy of slimes and sludges, with supporting tutorial sessions covering the biology and microbiology of fixed film and suspended growth treatment systems. Samples from a range of operating plant will be provided. Delegates are invited to bring samples of activated sludge for examination during practical sessions.	4 days Evening work is included
<b>ST003</b> Sludge Digestion for Works Managers and Team Leaders	The course course covers the principles and essential process details of mesophilic sludge digestion systems and the operational practices necessary to achieve a safe and optimum performance.	2 days

## Waste Water Gas Safety

<b>GA060</b> Gas Safety Awareness for Maintenance Staff at Wastewater Treatment Works	This course covers gas safety for operators involved in maintenance of gas pipework and appliances associated with sludge digestion plant and processes. Suitable for operators working on the installation, commissioning, servicing or repairs of pipework, plant and appliances on the treatment works the course provides operators with the knowledge and skill of safety regulations, procedures and British Standards which must be applied when working on sludge digestion plant and equipment associated with the gas line. Delegates will be required to complete written and practical assessments 'on-site'. This course will be able to carry a C&G 5831 certificate.	5 days
<b>GA061</b> Gas Safety Training for Wastewater Treatment Works	This course covers gas safety for operators involved in the day to day operation of gas pipework, controls and appliances associated with sludge digestion processes. Suitable for operators of sludge digestion process plant working with the general operation and day to day maintenance of pipework and associated controls, plant and appliances on Bio-gas treatment plant. The course provides operators with the knowledge and skill of safety regulations, procedures and standards which must be applied when working with sludge digestion plant gas installations. Delegates will be required to complete a short written test. On completion delegates will be given a certificate of attendance.	1 day
<b>GA062</b> Natural Gas Safety for Wastewater Treatment Works	This course covers natural gas safety for managers involved in the overseeing of operations involving gas pipework, controls and appliances at sludge digestion sites and is suitable for managers and supervisors of sites containing natural gas and LPG fired plant. The course provides delegates with knowledge of safety regulations, procedures and standards which must be applied when working with natural gas and LPG plant installations. Delegates will be required to complete a short written test. On completion delegates will be given a certificate of attendance.	1 day

## Biology and Microbiology

<p><b>WS011</b> Analytical Quality Control for the Microbiological Testing of Waters</p>	<p>This course is an examination of the AQC procedures required of microbiological testing laboratories when analysing drinking and environmental samples of water, with particular reference to 'The Microbiology of Drinking Water (2002) - Part 3 - Practices and Procedures for Laboratories'. This course is suitable for scientists responsible for the bacteriological analysis of all types of waters and the course will be of particular value to those working in quality assurance and control departments of testing laboratories. The course is a detailed explanation of the approach to quality assurance and AQC now required in laboratories performing the bacteriological examination of waters as described in 'The Microbiology of Drinking Water (2002)'.</p>	<p>2 days Evening work is included</p>
<p><b>WS014</b> The Isolation and Identification of Pathogenic Micro-organisms</p>	<p>This course is an advanced microbiology course which provides the knowledge and skills necessary to isolate pathogenic micro-organisms from sewage, sewage sludge, potable water and environmental samples. Also covered is the environmental significance of these organisms which will include Salmonella, Campylobacter, pathogenic strains of E.Coli, Legionella pneumophila, Giardia and Cryptosporidium and Enterovirus. Suitable for Scientific staff who have already acquired some skill and experience in working with pathogenic micro-organisms, participants should bring with them a suitable type of laboratory coat and eye protection. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	<p>4 days Evening work is included</p>
<p><b>WS015</b> Microbiological Aspects of Water Quality</p>	<p>A course to describe why and how microbiological considerations are used in the assessment of water quality throughout the water cycle and how to identify and control potential sources of microbial contamination so as to protect public health. Suitable for staff of any discipline who need to improve their knowledge of the application of water microbiology to the assessment and control of the quality of surface, ground and drinking waters. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	<p>2 days Evening work is included</p>
<p><b>WS016</b> The Microbiology of Drinking Water - Practical Examination and Theory</p>	<p>This course provides the knowledge and skills required to carry out the bacteriological examination of waters, good aseptic technique, basic microscopy and staining skills, quality control and the evaluation of new technology. Suitable for laboratory staff engaged in water examination, and others who wish to acquire practical skills in basic microbiology and microscopy. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	<p>4 days</p>
<p><b>WS030</b> Identifying Aquatic Plants</p>	<p>A course explaining how to identify the most common aquatic plants found in Britain. Suitable for all staff who need to be able to identify aquatic plants, especially staff who need to identify plants accurately in order to select appropriate control measures, including herbicide application. This course is also for those who need to identify plants in connection with the designation of 'Sensitive Areas' under the Urban Wastewater Treatment Directive (UWWTD) and pollution prevention field officers who wish to become competent at identifying aquatic plants as indicators of the ecological status of rivers and lakes. Please visit our website, or telephone for details of items delegates need to bring for this course.</p>	<p>2.5 days</p>

## Confined Spaces (Water UK)

### National Occupational Standards (NOS) City & Guilds Water UK

This suite of courses is designed for those who are required to work in Confined Spaces on water company premises in and around the UK mainland.

Develop Training Ltd provides representative experts on National Occupational Standards working group which is constructing the imminent VRQ (Vocationally Related Qualifications) for the national Confined Space standard.

Course Code, Title	City & Guilds and NOS entry classifications	Duration
<b>WUK01</b> Safe Entry into NOS NC1 Category Confined Spaces	City & Guilds 821. NC1, and NC2 where the need for escape BA has been risk assessed and not required	2 days
<b>WUK02</b> Safe Entry into NOS NC2,3,4 Category Confined Spaces Using Compressed Air Escape Breathing Apparatus as a Means of Self Rescue	City & Guilds 822. NC2, NC3, NC4	3 days
<b>WUK03</b> Safe Entry into NOS NC2,3,4 Category Confined Spaces Using Oxygen Re-breather Escape Breathing Apparatus as a Means of Self Rescue	City & Guilds 823. NC2, NC3, NC4	3 days
<b>WUK04</b> Safe Entry into NOS NC2,3,4 Category Confined Spaces Using Self-Contained Breathing Apparatus as a Means of Self Rescue	City & Guilds 824. NC2, NC3, NC4. Delegates must have attained unit 822 or 823 prior to undertaking this course.	1 day
<b>WUK05</b> Top Man Safety Attendant Duties at NOS NC2,3,4 Confined Spaces	City & Guilds 825. NC2, NC3, NC4. This course is for individuals who will not be required to (and will not be allowed) to enter Confined Spaces	2 days
<b>WUK06</b> Safe Entry into NOS NC4 Category Confined Space Using Self-Contained Breathing Apparatus, Donned Before Entry	City & Guilds 826. NC2, NC3, NC4. Delegates must have attained unit 822 or 823 prior to undertaking this course	1 day
<b>WUK010</b> Supervision of Work at NOS NC2,3,4 Category Confined Spaces (Advanced Certificate)	City & Guilds 972. NC2, NC3, NC4. Does not allow entry upon completion of course	4 days
REFRESHER AND ASSESSMENT ONLY COURSES AVAILABLE ON REQUEST.		

## Health and Safety

### Water Specific

Course Code, Title	Description	Duration
<b>SHE26</b> Repair of Asbestos Pipes (Water Industry)	This course is designed to provide maintenance operatives with the necessary training to correctly identify asbestos cement pipes and the risks associated with repairing them, and apply the correct techniques to safely repair pipe failures with asbestos cement pipes. This course assumes that delegates are already familiar and competent with common pipe repair methods and equipment.  At the end of the workshop delegates will be able to describe the risks associated with asbestos cement, classify which pipe repair processes give rise to risks from asbestos cement, outline the legal duty to manage asbestos, explain the correct working methods to clean, drill, saw and break asbestos cement pipe, complete a risk assessment for asbestos pipe repair, apply the correct methods to safely work with asbestos, select and use the correct equipment to safely work with asbestos.	0.5 days
<b>SHE28</b> Toxic Gas Training (Chlorine)	This course provides delegates with a working knowledge of chlorine as a gas and its application for water treatment as a disinfectant. An assessment will be carried out at the end of the course and a certificate of attendance may be awarded if required. At the end of the workshop delegates will be able to outline the basic properties of toxic gasses used in the water industry, define the hazards associated with these toxic gasses, discuss the use of these toxic gasses, describe the correct handling of these gasses, outline the control measures used in managing the risk from toxic gasses and identify the correct procedures/actions in the event of an emergency.	1 day
<b>SHE29</b> Handling Dangerous Substances	The course is designed to provide the knowledge and understanding required to ensure that those people handling chemicals do so without risk to health and safety or detriment to the work being carried out. At the end of the workshop delegates will be able to identify chemicals used in water / waste water treatment and their uses, explain the coding and labelling of chemicals, describe how COSHH relates to chemical handling, apply the principals of risk assessment in relation to chemical handling, recognise the correct handling, storage and safe use of chemicals and outline how to deal with spillages.	1 day
<b>SHE40</b> The Law and Practice of Trade Effluent Control	The course examines the regulatory framework surrounding the disposal of trade effluents to the public sewers and the practical measures required for compliance with the law.	2 days










### General Health & Safety

<b>SHE01</b> IOSH Working Safely	This course will enable delegates to improve the safety culture within the organisation by ensuring that individual and collective actions contribute to a safer work environment. This course is for all employees who work in high risk environments.  By the end of the course delegates will be able to implement Safety and Health principles in the work environment, understand the legal framework for Safety and Health in the work environment, understand hazards and risk assessment, contribute to an effective Safety and Health culture, comply with the Safety and Health plan, understand responsibilities in order to comply with Safety and Health legislation, follow specific safe systems of work and procedures for controlling risks and understand the accident/incident reporting procedure.	1 day
<b>SHE02</b> IOSH Managing Safely	This course is designed to improve the safety culture within the organisation and enable the manager to apply sound management principles to Safety and Health issues as part of a total strategy. The course is designed to give an understanding of responsibilities and accountability for site safety, health and welfare, current health and safety legislation including risk assessment common to many construction projects.  This course is for all employees who have responsibility for the management of Safety and Health in the work environment. By the end of the course delegates will be able to apply management principles to Safety and Health, understand the legal framework for Safety and Health in the work environment, effectively communicate appropriate Safety and Health information across the business, lead an effective Safety and Health culture, implement a Safety and Health plan, clearly identify responsibilities in order to comply with Safety and Health legislation, recognise and manage the control of hazards & risks, understanding why accidents/incidents occur.	4 days
<b>SHE04</b> Nebosh National General Certificate in Occupational Safety and Health	The NEBOSH National General Certificate in Occupational Safety and Health is an examined basic award designed for non-specialists who need to discharge health and safety functions or duty in the workplace. This course provides the knowledge and information to enable delegates to identify process hazards, health hazards and fire hazards and implement control measures; including managing the workplace safety through compliance with the law; and inspect and audit safety systems in the workplace. This course is for employees whose duties require them to provide advice and assistance to their employer or employees on strategic health, safety and welfare issues.	10 days
<b>SHE12</b> First Aid At Work (certificated)	A statutory Health & Safety Approved Initial First Aid course which leads to a certificate which is valid for three years. Training will be focused on first aid at work and take into account hazards at work and the nature and type of illness or injury the student may come across. First aiders will be trained to give treatment and recognise when it is necessary to get expert help. This course is for employees who are required to undertake First Aid at work, work in accordance with the requirements of the Health & Safety (First Aid) Regulations 1981. This course will provide the basic skills and knowledge to undertake first aid in the workplace to the competency levels specified by the Health & Safety Executive.	4 days

## General Health & Safety

<b>SHE018</b> Fire Risk Assessment	This course will cover the Fire Precautions (Workplace) Regulations, the nature and spread of fire, fire risk assessments, fire prevention and fire containment. This course is specifically designed to give delegates an understanding of the need for method, and subjects to be included in a fire risk assessment. This course is for managers, controllers, safety representatives and fire marshalls who need to develop the essential underpinning skills and knowledge required to be competent to complete a thorough examination/inspection of the working environment for the potential of fire, in order to comply with the new Regulatory (Fire Safety) Order in 2006.	1 day
<b>SHE019</b> Fire Marshall Training for the Workplace	This course will cover the Fire Precautions (Workplace) Regulations in context, the nature and spread of fire, fire fighting and safe systems for evacuation of others. This course is specifically designed to give delegates an understanding of the need for method, and subjects to be included in a fire risk assessment. The course is suitable for any person who needs to develop the essential underpinning skills and knowledge required to have responsibility for the evacuation of others.	1 day
<b>SHE021</b> Risk Assessment Training	This course is designed for all those people who are responsible for carrying out risk assessments on operational activities. The course provides an overview of the legislation requiring risk assessment and monitoring and gives delegates the opportunity to illustrate a way of identifying and analysing hazards, their occurrence. The course is for employees who are required to carry out risk assessment and by the end of the course delegates should be able to differentiate between hazards and risks, identify/evaluate hazards and risks and who may be affected, comply with legislation regarding risk assessment, follow company performance standards for risk assessment and identify appropriate control measures.	1 day
<b>SHE024</b> Manual Handling Risk Assessor Training	This course examines the requirements of the regulations, and introduces ways of completing successful assessment of manual handling operations.	1 day
<b>SHE030</b> Safe Working at Heights	This course provides delegates who have to work at heights with knowledge and skills to promote safe working at all times. It provides instruction in the correct use of access and safety equipment. By the end of the course delegates should be able to define what is meant by working at heights, contrast the fatal accident statistics for "falls from height" with other accident causes, outline the main causes of falls from ladders based on HSE accident figures, identify the legislation relevant to working at heights, describe the main hazards associated with working at heights (specifically covering ladders, tower scaffolds and mobile elevated work platforms), apply a hierarchy of controls for working at height, carry out pre user checks on basic working at heights equipment.	1 day
<b>SHE031</b> Safe Manual Handling Operations	This course is intended for people who do not undertake regular heavy lifting but may be required to do occasional lifting and moving of relatively non-hazardous loads as part of their normal jobs. By the end of the course delegates should be able to explain how manual handling injuries can occur, recognise manual handling risks in the delegates' own workplaces and apply simple controls to minimise manual handling risks in the workplace.	0.5 days

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