



# Water Systems Safety Training Solutions



Including Legionnaires Disease  
Prevention and Control





For further information on technical course content:

please call **Tony Green** on **01347 825518**

email: **tony.green@developtraining.co.uk**

Call our Sales Team on **0800 876 6708**

or email: **enquiries@developtraining.co.uk**

## Water Systems Management - Auditing Service

Develop Training Ltd now offers an independent audit of legionella control and prevention to ensure compliance with ACoP L8.

Please contact **Tony Green** on **01347 825518**

or email: **tony.green@developtraining.co.uk**



## Water Systems Safety Training Solutions

### Course Accreditations

Our water systems safety training courses are directly linked to national qualifications with awarding bodies such as City & Guilds. In other cases the successful completion of individual course units may be used as evidence to support the completion of different award schemes.

Our Water Systems Safety courses include:

- Legionella Awareness
- Management and Maintenance
- Hot and Cold Water Services
- Cooling Towers and Air Conditioning
- Hazard Identification and Risk Assessment
- Disinfection
- Unvented Hot Water Systems
- Water Regulations
- Swimming Pools



### Our Training Centre Facilities

Our specially equipped training centres provide the opportunity to gain hands on experience of a full range of industrial equipment, which often forms part of the overall competency assessment. Alternatively, provided that suitable practical facilities are available, courses can be delivered on customer premises. All our centres are approved for delivery of our City and Guilds courses.

We have the following fully equipped demonstration and assessment facilities at selected locations throughout the UK which are shown on the back cover of this brochure.



## What is Legionellosis?

Legionellosis infection occurs from the inhalation of water droplets that have stemmed from a water source contaminated with Legionella. Potential sources of contaminated water are widespread and include hot and cold water systems, cooling towers, showers, air conditioning systems, whirlpool spas, misting equipment and similar systems which utilise a public water supply. Fountains, ponds and hot tubs can also be sources of the disease, particularly if their filtering systems are flawed or faulty.

## Barrow Report

### 6 Recommendations from the Barrow report

1. Appoint a 'Responsible Person' and establish effective lines of communication. The officer appointed 'Responsible Person' should have sufficient authority, competence and knowledge to control and communicate the necessary requirements. Ignorance is no excuse for failing to address serious risks!
2. Co-operate, communicate and act on advice. Systems need to be in place to support effective monitoring and reporting.
3. Carry out adequate risk assessments & construct an action plan to address risks. Allocate and appoint individuals responsible for ensuring the plan is completed in a timely and effective manner. Leaders must be kept informed about any health and safety failures.
4. Clarify contracts and manage contract documentation. Organisations cannot discharge their legal duties simply by engaging contractors. They have a duty to manage those contractors by demonstrating a competent procurement process, checking sufficiently what they do and checking also that they do it in a safe and competent manner.
5. Provide adequate training and resource. People required to identify and assess the risk of exposure to legionella bacteria must have the ability, experience, information, instruction, training and resources. New recruits have particular training needs, as do people changing jobs or taking on extra responsibilities. Regular auditing and refresher training helps ensure people's skills are kept up to date.
6. Be aware of personal responsibility. The general duties of the employee include taking reasonable care for someone's health and safety (including their own) and to co-operate with their employer to enable their employer to comply with statutory duties and requirements.

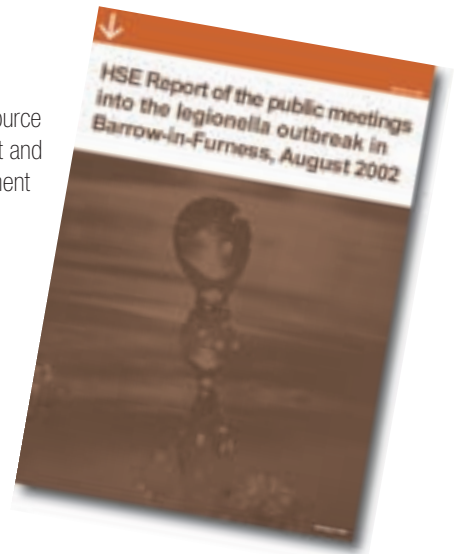
## Responsibilities

An employer's duty of care under health and safety law includes artificial water systems including hot and cold water systems, cooling systems and pools. These should be adequately maintained and monitored to ensure compliance with the law.

As a company, it is your responsibility to ensure that staff are provided with adequate training and resources.

As a first-class training company, it is our responsibility to ensure we offer you a route to a well-trained and accredited, competent workforce.

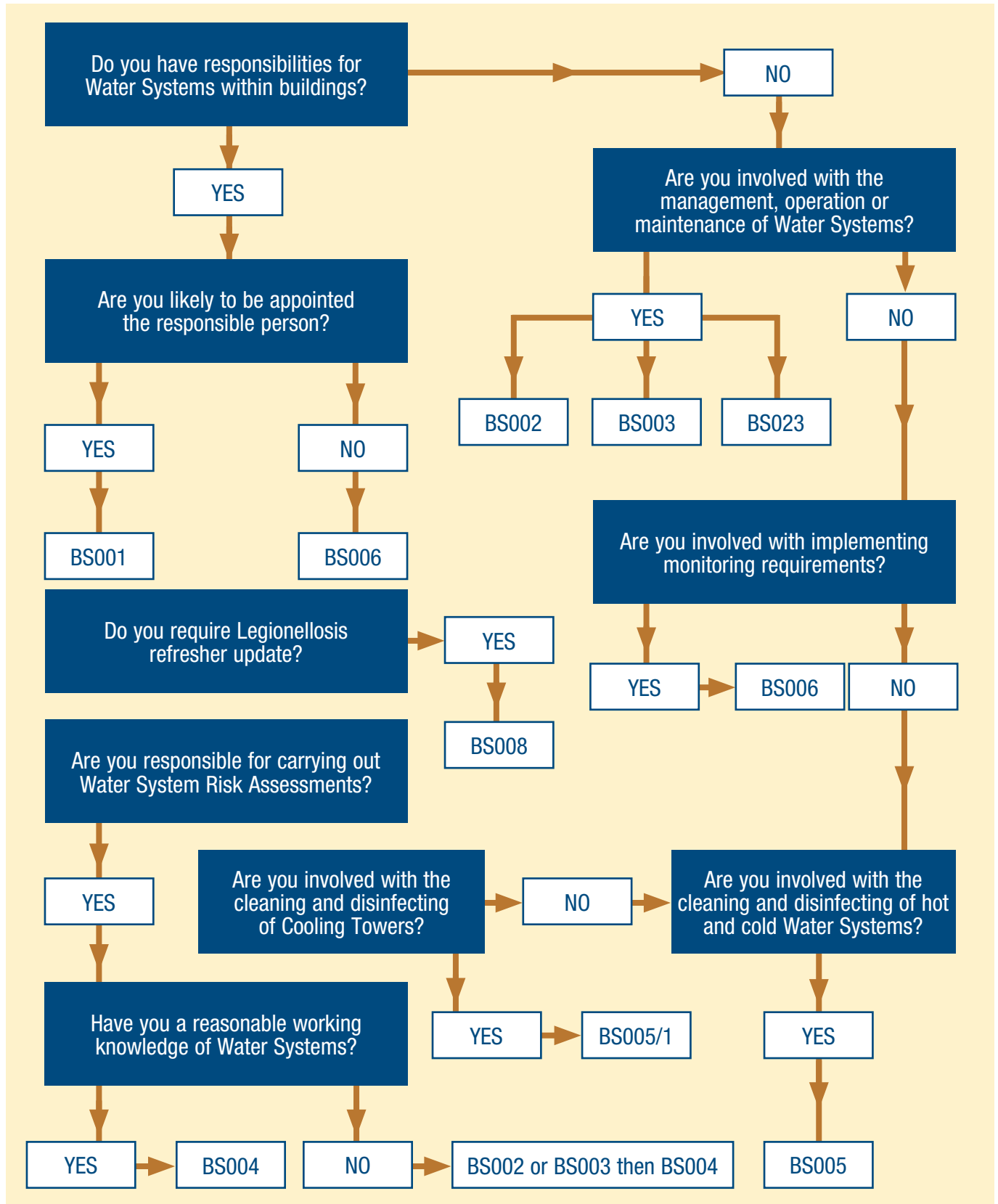
Our courses are designed to help employers and others ensure compliance with the Water Fittings Regulations and that the management of systems comply with ACoP L8 to help minimise the risk to health.



Courses	Duration
BS001	Legionellosis: Role of the Responsible Person 1 Day
BS002	Legionellosis: Hot and Cold Water Systems 4 Days
BS003	Legionellosis: Cooling Towers and Air Conditioning 4 Days
BS004	Legionellosis: Hazard Identification and Risk Assessment of Water Systems within Buildings 3 Days
BS005	Disinfection of Water Systems in Buildings 1 Day
BS006	Legionella Awareness and System Monitoring Requirements 1 Day
BS007	Reducing Water Consumption in Commercial and Industrial Buildings 1 Day
BS008	Legionellosis: Water Systems Refresher/Update 1 Day
BS009	Legionellosis: Other Risk Systems 1 Day
BS010	Unvented Domestic Hot Water Systems 1 Day
BS012	Water Regulations for Building Services Personnel/Contractors 2 Days
BS013	Management and Maintenance of Swimming/Hydrotherapy and Spa Pools 1 Day
BS023	Legionellosis: Hot and Cold Water Systems, Cooling Towers and Associated Plant and Equipment 5 Days



# Not sure what training you need?



## Legionellosis: The Role of the Responsible Person

BS001

Understanding the duties and responsibilities of the 'responsible person' for the management, effective implementation and control of risk assessment and any remedial work carried out on their premises.

### What will be covered

- Statutory requirements
- ACoP on prevention and control of legionellosis
- Water Systems survey and risk assessment
- Technical and guidance documents
- Water sampling, log books and records/reports
- Assessing the efficacy of system monitoring
- Disinfection and hygiene practices
- The role of Consultants/Contractors

### Duration

A one day course, beginning at 0900 and finishing at 1700.

York:	5 Jan 10, 27 April 10
Swindon:	5 Nov 09, 30 Mar 10, 20 July 10,
Whitwell:	2 Feb 10, 10 June 10, 21 Sept 10
Warrington:	27 May 10
Derby:	2 Mar 10, 31 Aug 10
Falkirk:	7 April 10, 3 Aug 10

**Course Fee:** £250 + VAT

## Legionellosis: Hot and Cold Water Systems

BS002

The legal and technical requirements for the control of legionella in hot and cold water systems. Carrying out effective system management and maintenance in accordance with the ACoP and guidance document on Legionellosis.

### What will be covered

- Statutory obligations
- Guidance notes and codes of practice
- Sources, risks and medical aspects
- Identification of susceptible areas
- System modification and design to minimise risk
- Water Supply (Water Fittings) Regulations
- System cleaning and disinfection
- Bacteriological sampling
- Hygiene practices
- Log books, records and reports

### Duration

A 4 day course, beginning at 1000 on day one and finishing at 1700 on day four

York:	2-5 Nov 09, 18-21 Jan 10, 12-15 April 10, 16-19 Aug 10
Swindon:	30 Nov - 3 Dec 09, 21-24 June 10, 13-16 Sept 10
Warrington:	8-11 Mar 10, 10-13 May 10
Falkirk:	14-17 June 10

**Course Fee:** £940 + VAT

Incl. accomm: £1175 + VAT

### A City & Guilds Course

## Legionellosis: Cooling Towers and Air Conditioning

BS003

The legal and technical knowledge required to operate cooling towers and air conditioning systems safely, to minimise the risk to health. For staff responsible for management, operating and maintenance of evaporative cooling systems.

### What will be covered

- Legal obligations
- Notification procedures
- Medical aspects
- Cooling tower operation
- Design consideration and modification to minimise risk
- Water treatment
- Cleaning and disinfection
- Water sampling
- Control criteria, log books and record keeping

### Duration

A 4 day course, beginning at 1000 on day one and finishing at 1700 on day four

York:	11-14 Jan 10 1-4 Mar 10 17-20 May 10 2-5 Aug 10
Swindon:	9-12 Nov 09

**Course Fee:** £940 + VAT

Incl. accomm: £1175 + VAT

### A City & Guilds Course



## Legionella: Hazard Identification and Risk Assessment of Water Systems within Buildings

BS004

A course designed for those who are responsible for carrying out risk assessments on water, air conditioning and cooling tower systems. Participants will be expected to have an understanding of the configurations and functions of hot and cold water and cooling systems, or have attended either course BS002 or BS003.

### What will be covered

- Legionellosis - background to the disease and organisms
- Requirement risk assessment in the ACoP
- Identification of susceptible areas within water systems:
  - Hot and cold water systems
  - Cooling systems
  - Other relevant systems
- Recommend method of system modification
- Estimation of system needs and usage
- Water sampling methods
- Risk assessment documentation

### Duration

A three day course, beginning at 0900 on day 1, finishing at 1700 on day 3.

York: 26-28 May 10  
27-29 Sept 10

Swindon: 5-7 Jan 10  
7-9 April 10  
6-8 July 10

Warrington: 17-19 Nov 09

**Course fee:** £690 + VAT  
Incl. accomm: £845 + VAT

### A City & Guilds Course

## The Disinfection of Water Supply Systems within Buildings

BS005

Safe disinfection of water systems in accordance with ACoP and Guidance notes on Legionellosis and BS6700.

For staff, supervisors or maintenance contractors required to carry out or hold responsibility for disinfection work.

### What will be covered

- Water disinfection - background
- Legal implications and requirements
- Safe storage, handling and use of chlorine-based chemicals
- Calculating system capacities and chemical quantities
- Production of method statements
- Chemical dose, pH factor and residuals
- Disinfection procedure
- Measuring equipment demonstration

### Duration

A one day course, beginning at 0900 and finishing at 1700.

York: 6 Jan 10, 28 April 10  
Swindon: 4 Nov 09, 22 Dec 09,

23 Feb 10, 31 Mar 10

Whitwell: 3 Feb 10, 11 June 10

Derby: 3 Mar 10, 2 Sept 10

Warrington: 24 Nov 09

**Course fee:** £280 + VAT

### A City & Guilds Course

## Legionella Awareness and System Monitoring Requirements

BS006

For staff who are involved in the implementation of the written scheme and who are responsible for maintaining site log books.

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.

### What will be covered

- Water Systems Safety - background
- Legionellosis - Medical aspects
- Awareness of both statutory and non-statutory Health & Safety requirements
- An understanding of the engineering aspects of hot and cold water systems
- Monitoring requirements of hot and cold water systems
- Flushing regimes
- Water sampling requirements
- Records and log books

### Duration

A one day course, beginning at 0900 and finishing at 1700.

York: 7 Jan 10, 29 April 10

Swindon: 3 Nov 09, 1 April 10

Whitwell: 4 Feb 10, 9 June 10

Derby: 4 Mar 10, 1 Sept 10

Falkirk: 8 April 10, 4 Aug 10

**Course fee:** £280 + VAT

### A City & Guilds Course

## Reducing Water Consumption in Commercial and Industrial Premises

BS007

A course for building owners, premises managers and consultants who are looking for ways to use water more efficiently and reduce costs.

### What will be covered

- Levels of service provided by Water Companies
- Legal requirements for water supply and use in buildings
- Developing a programme for reducing water charges
- Identifying solutions and actions
- Water systems design and maintenance
- Water saving devices

### Duration

A one day course, beginning at 0900 and finishing at 1700.

Dates on request.

**To book call 01347 825516**

**Course fee:** £250 + VAT

## Legionellosis: Water Systems Refresher Update

BS008

A one day course for people who have successfully completed our Legionella City & Guilds courses, BS002 and BS003, and now find it necessary to update themselves on the new practices and procedures.

Candidates will be informed of any new requirements of the ACoP on the control of legionella bacteria in water systems and discuss the various control programmes which when implemented can mitigate risk to health.

- Review of recent outbreaks
- Medical aspects
- Relevant statute documents
- Approved Code of Practice and other relevant guidance documentation
- Hot and Cold Water Systems: identifying and minimising risks
- Cooling Evaporative Systems: identifying and minimising risks
- Water sampling for bacteriological analysis
- Monitoring and record keeping

### Duration

A one day course, beginning at 0900 and finishing at 1700.

York: 26 April 10  
Swindon: 6 Nov 10, 21 July 10  
Whitwell: 5 Feb 10, 8 June 10  
Derby: 8 Dec 09, 3 Sept 10  
Warrington: 26 May 10

**Course fee:** £280 + VAT

## A City & Guilds Course

### Legionellosis: Other Risk System

BS009

For people who carry out water systems risk assessments within buildings and who require more detailed information on these 'other systems'.

Provides delegates with the legal and engineering knowledge they require to enable them to assess the risk to health from these systems.

### What will be covered

- Review of medical and statutory aspects
- Principles of operation of these systems
- Identification of susceptible areas in:
  - Humidifiers and air washers
  - Spas and whirlpool baths
  - Hydrotherapy pools
  - Dental equipment
  - Fire suppression systems
  - Vehicle washes
  - Emergency showers
  - Water features
- Recommended methods of control
- Recommended monitoring and log book regimes

### Duration

A one day course, beginning at 0900 and finishing at 1700.

Dates on request.

**To book call 01347 825516**

**Course fee:** £250 + VAT

### Unvented Domestic Hot Water Storage Systems

BS010

Due to concern over safety, the installation and servicing of unvented domestic hot water systems is governed by legislation. This states that persons who install or service and maintain these systems must be aware of the requirements of both Building Regulations and Water Regulations and shall be deemed competent. For people who are involved with the installation, commissioning and maintenance of these systems.

Provides each delegate with the information necessary to satisfy the safety requirements for the installation and servicing of unvented domestic stored hot water systems as indicated in the Building Regulations and to ensure

compliance with the Water Supply (Water Fittings) Regulations 1999. An NIC certificated course.

### What will be covered

- Statutory and non-statutory requirements
- Water Supply Regulations Guidance Document
- Review of domestic hot water systems
- Unvented domestic hot water systems, safety controls, function controls
- Discharge pipes
- Installation, commissioning and servicing requirements
- Assessment

### Duration

A one day course, beginning at 0900 and finishing at 1700.

Derby: 9 Dec 09, 26 Jan 10,  
9 Mar 10, 8 June 10,  
23 Sept 10

**Course fee:** £280 + VAT



## Water Regulations for Building Services Personnel/Contractors

BS012

A short course for anyone involved in the design, maintenance and installation of water systems to ensure compliance with new legislation and standards.

### What will be covered

- Introduction to Water Regulations
- Definition of drinking water and standards
- Backflow and contamination
- Hot and cold water systems
- Water fittings and materials
- Notification procedures
- Approved Contractors Scheme

### Duration

A two day course, beginning at 0900 on day 1 and finishing at 1700 on day 2.

York: 20-21 July 10

Swindon: 15-16 Dec 09, 26-27 Jan 10,  
9-10 Mar 10, 13-14 April 10

Derby: 25-26 Mar 10, 18-19 May 10

Warrington: 24-25 Nov 09, 12-13 Jan 10,  
23-24 Feb 10

**Course fee:** £340 + VAT

Incl. accomm: £415 + VAT

### A City & Guilds Course

## Management and Maintenance of Swimming, Hydrotherapy and Spa Pools

BS013

For staff who are involved in the administration, operation and maintenance of these pools. Provides the candidates with the legal, moral, technical requirements, health and safety aspects and management skills to operate the facility effectively.

### What will be covered

- Medical aspects and moral obligations
- Legal obligations and implications
- Pollution of pool water
- Pool water circulation
- Plant operation and maintenance
- Methods of water disinfection
- Water quality; pH alkalinity etc
- Water monitoring, sampling, temperatures etc
- Explain role of ventilation

### Duration

A one day course, beginning at 900 and finishing at 1700

Dates on request.

**To book call 01347 825516**

**Course fee:** £250 + VAT

## Legionellosis: Water Systems, Evaporative Towers, Condensers & Associated Plant

BS023

For managers and engineers who may be responsible for the safe operation and maintenance of water systems within buildings. Provides delegates with current legal and technical requirements for the control of legionella bacteria in water systems within buildings and the skills necessary to manage and maintain water systems effectively in compliance with HSC Approved Code of Practice L8.

### What will be covered

- Background information including reported cases past and present
- Medical aspects of Legionellosis with reference to its occurrence, ecology and transmission routes
- Legal issues, including statute requirements, ACoP L8 technical and guidance documents

- Identification of susceptible areas within an evaporative tower/condenser. Operation and maintenance and effective water treatment methods
- Identification of problem areas within hot and cold water systems
- Recommended methods of system modification to minimise proliferation of legionella and other organisms by reference to the Water Supply (Water Fittings Regulations, guidance documents and approved fittings and materials
- Recommended methods of cleaning and disinfection of water systems
- Hygiene working practices
- Testing water for bacteriological and legionella purposes
- Reporting and recording procedures, including operation and maintenance logs and control measures to minimise risks

### Duration

A five day course, beginning at 1000 on day 1, finishing at 1600 on day 5.

York: 30 Nov - 4 Dec 09

8-12 Feb 10

7-11 June 10

**Course fee:** £1112 + VAT

Incl. accomm: £1420 + VAT










### A City & Guilds Course

## Water Systems Management - Auditing Service

Please see page 2 for further details



Develop Training Ltd work with many industry sectors providing quality training, consultancy and assessment programmes. Our areas of expertise cover:

-  Health, Safety & The Environment
-  Mechanical Engineering
-  Building Services Engineering
-  Gas Engineering and Safety
-  Water & Wastewater
-  Construction
-  Streetworks Management and Supervision
-  Team Building & Management Development
-  Funded Learning through Train to Gain and Apprenticeships

*Please see opposite for our new range of brochures available for 2009/2010*

**Quality Assured**

We operate a Quality Management system which is certified under the new quality standard ISO9001:2000. Our trainers and assessors hold the latest technical and training qualifications and Develop is recognised as an Investor in People company.



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**Derby Training Centre,**

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Falkirk FK2 9GA

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Glasgow G22 6NU

**Swindon Training Centre,**

Frankland Road, Blagrove,  
Swindon, Wiltshire SN5 8YF

**Warrington Training Centre,**

Chesford Park House,  
18 Chesford Grange  
Warrington WA1 4RQ

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Whitwell, Oakham,  
Rutland LE15 8BW

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web: [www.developtraining.co.uk/watersystems](http://www.developtraining.co.uk/watersystems)

