

Course Details:

Outline of Course				
Module/Unit Title	Compulsory or Elective	ECTS/ ECVETS	Mode of Teaching	Mode of Assessment
Module 1: Functional Skills for Pipelaying		1 ECTS		
Unit 1: Hydraulics of Water Networks	Compulsory		Lecture	100% Oral Test
Unit 2: Interpretation of Plans & Schematics	Compulsory		Lecture	100% Written/Oral Exam
Unit 3: Customer Care	Compulsory		Lecture	100% Oral Test
Unit 4: Digital Literacy & Documentation	Compulsory		Lecture	100% Oral Test
Module 2: Excavation & Reinstatement		1 ECTS		
Unit 1: Excavation & Reinstatement of Roads	Compulsory		Lecture On-site demo	50% Field 50% Oral Assessment
Unit 2: Re-instatement of Manholes & Chambers	Compulsory		Lecture On-site demo	50% Practical 50% Oral Assessment
Module 3: Service Pipes Installation		4 ECTS		
Unit 1: Mains Laying & Pipe Jointing (I)	Compulsory		Lecture On-site demo	50% Field 50% Oral & Practical Assessment
Unit 2: Mains Laying & Pipe Jointing (II)	Compulsory		Lecture On-site demo	50% Field 50% Oral & Practical Assessment
Unit 3: Service Pipes Installation (I)	Compulsory		Lecture On-site demo	50% Field 50% Oral & Practical Assessment
Unit 4: Service Pipes Installation (II)	Compulsory		Lecture On-site demo	50% Field 50% Oral & Practical Assessment
Module 4: Disinfection & Testing of Mains		1 ECTS		
Unit 1: Disinfection of Water Mains	Compulsory		Lecture	100% Participation
Unit 2: Testing of Mains	Compulsory		Lecture On-site demo	50% Field 50% Oral & Practical Assessment
Module 5: Supervision of Works		1 ECTS		
Unit 1: Supervision of Works	Compulsory		Lecture	100% Written/Oral Exam
Unit 2: Health & Safety on Site	Compulsory		Lecture	100% Written/Oral Exam
Module 6: Work Experience	Compulsory	19 ECTS	On-the-Job	Compilation of job sheets & other docs. as evidence

Total ECTS/ECVETS Requesting Accreditation	<u>27</u> ECTS/ECVETS														
Total ECTS/ECVETS for Course Completion	<u>27</u> ECTS/ECVETS														
Exit Awards/Qualifications (C2.2)	<p>Exit award for every module as follows:</p> <ol style="list-style-type: none"> 1. Award in Functional Skills for Pipelaying Supervision and Control (1 ECTS) Duration: 6 days (1 month) 2. Award in Supervision and Control of Excavation & Reinstatement (1 ECTS) Duration: 6 days (1 month) 3. Award in Supervision and Control of Service Pipes Installation (4 ECTS) Duration: 22 days (4 month) 4. Award in Supervision and Co-ordination of Disinfection & Testing of Mains (1 ECTS) Duration: 7 days (1 month) 5. Award in Recording, Reporting and Site Safety during Works (1 ECTS) Duration: 5 days (1 month) 6. Award in Site Supervision of Trenching and Pipelaying Projects (8 ECTS). This award includes Modules (Awards) 1 – 5. Duration: 46 days (8 months) <p><u>Note:</u> The 27 credits will be achieved by doing the Award in Site Supervision of Trenching and Pipelaying Projects (8 ECTS) + Work-based Learning (19 ECTS).</p>														
Grading System:	<table border="1" data-bbox="850 1525 1417 1783"> <tr> <td>Grade A⁺</td> <td>88% - 100%</td> </tr> <tr> <td>A</td> <td>78% - 87%</td> </tr> <tr> <td>B⁺</td> <td>73% - 77%</td> </tr> <tr> <td>B</td> <td>68% - 72%</td> </tr> <tr> <td>C⁺</td> <td>63% - 67%</td> </tr> <tr> <td>C</td> <td>50% - 62%</td> </tr> <tr> <td>F</td> <td>49.9% - 0%</td> </tr> </table> <p>Pass Mark: 50%</p>	Grade A ⁺	88% - 100%	A	78% - 87%	B ⁺	73% - 77%	B	68% - 72%	C ⁺	63% - 67%	C	50% - 62%	F	49.9% - 0%
Grade A ⁺	88% - 100%														
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B	68% - 72%														
C ⁺	63% - 67%														
C	50% - 62%														
F	49.9% - 0%														
Rules & Regulations:	These will be given on the first day of the course and explained accordingly to participants.														

The Awards

01. Award in Functional Skills for Pipelaying Supervision and Control (1 ECTS)

Module / Unit Description	<p>This module will introduce students to functions related to pipelaying. Learners will become familiar with the hydraulics of water network and the interpretation of plans & schematics. Learners will gain the skills and knowledge required in supervising the laying of a range of water mains of differing materials.</p> <p>Type: Compulsory Module</p>
Learning Outcomes	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p>
	<ul style="list-style-type: none"> a) Monitor and record flow and pressure in water systems, b) be able to supervise the use different sizing of pipes in networks, c) manage the choice of fittings and instrumentation, d) read drawings, e) interpret symbols and their significance, f) read and interpret schematic diagrams, g) communicate effectively, h) deal with difficult customers & challenging situations, i) recognise customer's needs and ensure to channel to the right WSC official, j) produce documents and data using Microsoft Office (Outlook & Excel), k) use as instructed the Projects & GIS System, l) use as instructed the Eletronic File System, m) record data by using a Tablet.
	<p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p>
	<ul style="list-style-type: none"> a) the basic principles of flow and pressure in water systems, b) the different sizing of pipes in networks, c) fittings and instrumentation, d) common project drawings, e) symbols and their significance, f) schematic diagrams, g) effective communication skills to provide excellent customer service to internal and external customers (e.g. listening, giving feedback, explain the projects and any issues that may arise), h) dealing with difficult customers & challenging situations, i) identifying customer's needs and matching the channel to the right WSC official, j) Microsoft Office (Outlook & Excel), k) Projects & GIS System, l) Eletronic File System, m) using a Tablet, Projects & GIS System,
<p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p>	

	<p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <ol style="list-style-type: none"> a) read and interpret flow and pressure in water systems, b) supervise the installation of different sizing of pipes in networks, c) control what fittings and instrumentation are used d) read and interpret project drawings, e) read and interpret symbols and their significance, f) read and interpret schematic diagrams, g) communicate technical information and work procedures effectively, h) select appropriate techniques to deal with difficult customers and challenging situations, i) apply a range of questioning techniques to establish and understand customer needs and ensure to channel to the right WSC official, j) apply Microsoft Word and Excel to draw reports, k) use the Projects & GIS System, l) use the Eletronic File System, m) use effectively provided Tablets for data collection on site and other software packages related to work. <p>Judgment Skills and Critical Abilities</p> <p>The learner will be able to:</p> <ol style="list-style-type: none"> a) assess the hydraulics of water networks b) interpret plans & schematics c) assess how to handle difficult customers & challenging situations d) select the appropriate programmes from Microsoft Office for the necessary documentation 	
<p>Hours of Total Learning for this Module / Unit</p>	<p>Total Contact Hours: 10</p>	<p>Supervised Placement and Practice Hours: n/a</p>
	<p>Self-Study Hours: 12</p>	<p>Assessment Hours: 3</p>
<p>Total Learning Hours of this Module</p>	<p>25 Hours</p>	
<p>Total Number of ECTS / ECVET of this Module / Unit</p>	<p>1 ECTS / ECVETs</p>	
<p>Delivery</p>	<p>Module will be taught via lectures.</p> <p>For the subject '<i>Digital Literacy & Documentation</i>' there will be a 2-hour lecture in the Computer lab to teach participants how to use:</p> <ul style="list-style-type: none"> ▪ Microsoft Office (Outlook & Excel), ▪ the Projects & GIS System (used by WSC), ▪ the Eletronic File System (used by WSC), ▪ the use of a Tablet (in relation for work carried out by the pipelaying section). 	
<p>Assessment</p>	<p>Oral Exam 100%</p>	

02. Award in Supervision and Control of Excavation & Reinstatement (1 ECTS)

<p>Module / Unit Description</p>	<p>This module will introduce students to basic description of the methods and procedure to be adopted during the excavation and reinstatement of all road intervention works, hence they would be able to supervise such works that are carried by others.</p> <p>Type: Compulsory Module</p>
<p>Learning Outcomes</p>	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p> <ul style="list-style-type: none"> a) explain the types and classification of roads b) identify and select the necessary permits and describe the importance of permits c) check against technical specifications that works comply with project plans and schedules d) explain to the workers carrying out the trenching works the preparation required for trenching works and general safety measures and alert when these are not carried out as specified e) identify, select and explain a range of appropriate trench excavation methods to suite a range of terrain and sites f) identify and select appropriate methods to manage backfill materials g) identify, select and describe appropriate compacting methods (against technical specifications) h) identify, select and describe appropriate methods for the reinstatement of roads i) check the installation of manholes and chambers against agreed specifications j) identify, select and describe proper handling of slabs and other bulky material k) check and inspect signage and guarding works l) carry out inspection of finishing tasks m) inspect and approve the placing and compaction of back-fill materials n) identify and select responsibilities and appropriate installation methods of shuttering to prevent collapse of trenches o) describe and identify responsibilities to remove surplus material from site <p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p> <ul style="list-style-type: none"> a) identify types and classification of roads b) list a range of appropriate permits c) identify and understand a range of plans and schematics d) prepare for trench works procedures and safety precautions e) identify methods of excavation f) identify and select of backfill materials g) identify and select compacting methods h) match re-instatement of roads i) read and interpret specifications of manholes and chambers j) describe appropriate handling procedures of slabs and bulky material

	<ul style="list-style-type: none"> k) describe appropriate procedures for checking and inspecting signage and guarding works l) identify the finishing product m) describe appropriate methods to inspect and approve the placing and compaction of back-fill materials n) install support for retention of materials o) ensure the appropriate methods to dispose all surplus material from site 	
	<p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p>	
	<p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) identify and select criteria used for the classification of roads b) apply for permits c) read and interpret plans and schematics d) draw work plans and instructions for trench works and related safety measures e) identify and describe different methods of excavation appropriate for particular situations f) identify and select backfill materials g) identify and select different compacting methods h) describe the procedure to monitor re-instatement of roads i) verify the specifications of manholes and chambers j) describe the monitoring of the safe handling of slabs and bulky material k) describe a range of signage and guarding of works requirements l) describe the verification process during the finishing product m) inspect and approve the placing and compaction of back-fill materials n) inspect and approve erected false-work for the retention of material, o) describe and co-ordinate appropriate procedures to dispose of surplus material from site. 	
	<p>Judgment Skills and Critical Abilities</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) examine and supervise trench works and safety b) examine and supervise re-instatement of roads c) select appropriate methodologies for road intervention works 	
<p>Hours of Total Learning for this Module / Unit</p>	<p>Total Contact Hours: 4</p>	<p>Supervised Placement and Practice Hours: 8</p>
	<p>Self-Study Hours: 11</p>	<p>Assessment Hours: 2</p>
<p>Total Learning Hours of this Module</p>	<p>25 Hours</p>	

Total Number of ECTS / ECVET of this Module / Unit	1 ECTS / ECVETs
Delivery	<p>Module will be taught via lectures.</p> <p>It will also consist of on-site demonstrations so that participants will be shown the actual tasks required for the work to be carried out.</p>
Assessment	<p>1. Practice: 50% Candidates' performance will be observed and judged against the requirements of this area of competence.</p> <p>2. Oral Exam: 50% Assessment will be through questioning the candidates to ensure that they have acquired the knowledge learned in this module.</p> <p>Questioning will be carried out orally.</p>

03. Award in Supervision and Control of Service Pipes Installation (4 ECTS)

Module / Unit Description	<p>This module will introduce students to the skills and knowledge on how to supervise mains laying and jointing works to be carried out by others.</p> <p>Type: Compulsory Module</p>
Learning Outcomes	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p>
	<p>a) advise on main laying techniques b) supervise main laying of pipes jointing c) guide on repairing and modifying mains d) inspect and approve the integrity of trench support false-work e) monitor connections and fittings f) oversee material cutting and grinding g) inspect main repairs & alterations against operating procedures:</p> <ul style="list-style-type: none"> ▪ cold cutting and grinding of mains ▪ installation of valves, ties and other fittings on existing mains ▪ insulation of meters and recording equipment ▪ technique used in mains repairs ▪ corrosion prevention <p>h) advise on characteristics of service pipe materials i) visual inspection of jointing and laying of services j) examine jointing dis-similar pipe materials using threaded joints k) understand the use of self-tapping furreles l) co-ordinate the installation of new services m) monitor and control service pipe repairs & alterations:</p> <ul style="list-style-type: none"> ▪ jointing of polythene and galvanised steel pipes ▪ repair of service pipes ▪ inspection of corrosion and methods of protection ▪ cleansing and flushing of pipes ▪ installation of meters/stop valves ▪ use of split collars ▪ dis-connections
	<p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p>
	<p>a) define main laying techniques b) identify main laying of pipes jointing c) identify of repairing and modifying mains d) marking of trench support e) labeling connections and fittings f) marking of material cold cutting and grinding g) describe main repairs & alterations:</p> <ul style="list-style-type: none"> ▪ cutting and grinding of mains ▪ installation of valves, ties and other fittings on existing mains ▪ insulation of meters and recording equipment ▪ technique used in mains repairs ▪ corrosion prevention <p>h) list the characteristics of service pipe materials i) describe jointing and laying of services j) describe jointing dis-similar pipe materials using threaded joints k) identify of the use of self-tapping furreles</p>

	<p>l) marking installation of new services</p> <p>m) describe the responsibilities relating to service pipes</p> <p>n) describe the following service pipe repairs & alterations:</p> <ul style="list-style-type: none"> ▪ jointing of polythene and galvanised steel pipes ▪ repair of service pipes ▪ inspection of corrosion and methods of protection ▪ cleansing and flushing of pipes ▪ installation of meters/stop valves ▪ use of split collars ▪ dis-connections
	<p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p>
	<p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <p>a) co-ordinate and inspect main laying techniques</p> <p>b) check against specifications the jointing of main pipes</p> <p>c) check repairing and modification of mains against specifications</p> <p>d) check the installation of trench support against specifications</p> <p>e) check the assembly of connections and fittings against specifications</p> <p>f) check and approve material cutting and grinding as per technical specifications</p> <p>g) check installation of valves, ties and other fittings on existing mains against installation procedures</p> <p>h) check the installation of meters and recording equipment against installation procedures</p> <p>i) check procedures and techniques used in mains repairs against specifications</p> <p>j) check the applied corrosion prevention methods against specifications</p> <p>k) examine the composition of jointing and laying of services process</p> <p>l) check and approve jointing of dis-similar pipe materials using threaded joints</p> <p>m) plan installation of new services from given project plans</p> <p>n) knowledge of the following service pipe repairs & alterations:</p> <ul style="list-style-type: none"> ▪ jointing of polythene and galvanised steel pipes using threaded fittings and/or flanges ▪ inspection of corrosion and methods of protection ▪ cleansing and flushing of pipes ▪ installation of meters/stop valves ▪ use of split collars ▪ dis-connections
	<p>Judgment Skills and Critical Abilities</p> <p>The learner will be able to:</p> <p>a) identify main laying techniques</p> <p>b) assess main laying of pipes jointing</p> <p>c) evaluate jointing and laying of services</p> <p>d) evaluate installation of new services</p> <p>e) categorise service pipe repairs & alterations</p>

Hours of Total Learning for this Module / Unit	Total Contact Hours: 6	Supervised Placement and Practice Hours: 64
	Self-Study Hours: 24	Assessment Hours: 6
Total Learning Hours of this Module	100 Hours	
Total Number of ECTS / ECVET of this Module / Unit	4 ECTS / ECVETs	
Delivery	<p>Module will be taught via lectures.</p> <p>It will also consist of on-site demonstrations so that participants will be shown the actual tasks required for the work to be carried out.</p>	
Assessment	<p>1. Practice: 50% Candidates' performance will be observed and judged against the requirements of this area of competence.</p> <p>2. Oral Exam: 50% Assessment will be through questioning the candidates to ensure that they have acquired the knowledge learned in this module.</p> <p>Questioning will be carried out orally.</p>	

04. Award in Supervision and Co-ordination of Disinfection & Testing of Mains (1 ECTS)

<p>Module / Unit Description</p>	<p>This module will introduce students to safe and accurate disinfection of mains. Learners will gain an understanding of the importance of cleaning/disinfection, safe/accurate workmanship and conformance with relevant technical standards regarding the disinfection of mains. Learners will be able to understand these tests, what needs to be prepared for these tests to be carried out by the contractor carrying out works and to plan and co-ordinate for these tests to be performed.</p> <p>Type: Compulsory Module</p>
<p>Learning Outcomes</p>	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p> <ul style="list-style-type: none"> a) identify and check that all H&S requirements towards the community are implemented and maintained at all times b) understand how representatives water samples are taken by third parties c) understand the handling and storing of chlorine by third parties d) co-ordinate and keep records of disinfection of mains applied procedures e) co-ordinate Qualitative Tests for: <ul style="list-style-type: none"> ▪ Concrete Testing ▪ Pressure Testing ▪ Chlorination (Disinfection of mains) & Sampling for Bacteriology Testing ▪ CCTV Testing ▪ Hot Road Asphalt (HRA) Testing <p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p> <ul style="list-style-type: none"> a) broad health issues related to the community b) representatives water samples c) handling and storing chlorine d) performance of effective disinfection of mains e) characteristic performance of Qualitative Tests for: <ul style="list-style-type: none"> ▪ Concrete Testing ▪ Pressure Testing ▪ Chlorination (Disinfection of Mains) & Sampling for Bacteriology Testing ▪ CCTV Testing ▪ Hot Road Asphalt (HRA) Testing <p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p> <p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) plan and coordinate Qualitative tests: <ul style="list-style-type: none"> ▪ Concrete Testing ▪ Pressure Testing ▪ Chlorination (Disinfection of Mains) & Sampling for Bacteriology Testing

	<ul style="list-style-type: none"> ▪ CCTV Testing ▪ Hot Road Asphalt (HRA) Testing <p>b) Use test results and apply any necessary corrective action if required.</p>	
	<p><i>Judgment Skills and Critical Abilities</i></p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) select representatives water samples b) examine the handling and storing of chlorine c) monitor effective disinfection of mains d) identify, plan and co-ordinate Qualitative Tests 	
Hours of Total Learning for this Module / Unit	Total Contact Hours: 3	Supervised Placement and Practice Hours: 16
	Self-Study Hours: 4	Assessment Hours: 2
Total Learning Hours of this Module	25 Hours	
Total Number of ECTS / ECVET of this Module / Unit	1 ECTS / ECVETs	
Delivery	<p>Module will be taught via lectures.</p> <p>It will also consist of on-site demonstrations so that participants will be shown the actual tasks required for the work to be carried out.</p>	
Assessment	<p>1. Practice: 50% Candidates' performance will be observed and judged against the requirements of this area of competence.</p> <p>2. Oral Exam: 50% Assessment will be through questioning the candidates to ensure that they have acquired the knowledge learned in this module.</p> <p>Questioning will be carried out orally.</p>	

05. Award in Recording, Reporting and Site Safety during Works (1 ECTS)

<p>Module / Unit Description</p>	<p>This module will introduce students to Supervision of work. Learners will gain a thorough understanding to manage the work at hand and strong people skills to coordinate, motivate and lead a team to perform effectively on site. Participants will learn how to communicate with project stakeholders and site contractors.</p> <p>Type: Compulsory Module</p>
<p>Learning Outcomes</p>	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p>
	<ul style="list-style-type: none"> a) take responsibility to supervise work at hand b) ensure corrective measures are taken when required c) co-ordinate works and qualitative tests d) identify existing and predicatable lack of safety awareness in the work environment e) comply with Litigation Procedures f) comply with ISO Procedures g) record and report accord to company procedures h) comply with OHS Requirements i) ensure site upkeep
	<p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p>
	<ul style="list-style-type: none"> a) the role of the supervisor on site b) identify different type of corrective measures that can be taken c) become aware of the need for co-ordination d) H&S Awareness vis-a-vis site upkeep (e.g. PPE, Roadworks Safety) e) understand Litigation Procedures f) list of related ISO Procedures g) procedures to keep records & reports h) OHS Requirements i) specific H&S issues to be tackled
	<p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p>
<p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) implement appropriate supervisory skills b) demonstrate appropriate corrective measures to be taken in a range of work environment situations c) plan and co-ordinate of works d) show the contractor on site where H&S measures on site are not being implemented e) apply Litigation Procedures f) apply ISO Procedures g) prepare Records & Reports h) demonstrate OHS Requirements to be employed by workers on site 	

	<i>Judgment Skills and Critical Abilities</i>	
	The learner will be able to:	
	a) identify and adopt methods that will lead to successful supervision b) interpret OHS&A Requirements and oversee H&S on site c) identify and adopt Litigation Procedures d) choose the appropriate ISO Procedures	
Hours of Total Learning for this Module / Unit	Total Contact Hours: 4	Supervised Placement and Practice Hours: 8
	Self-Study Hours: 11	Assessment Hours: 2
Total Learning Hours of this Module	25 Hours	
Total Number of ECTS / ECVET of this Module / Unit	1 ECTS / ECVETs	
Delivery	Module will be taught via lectures. It will also consist of on-site demonstrations so that participants will be shown the actual tasks required for the work to be carried out.	
Assessment	1. Practice: 50% Candidates' performance will be observed and judged against the requirements of this area of competence. 2. Oral Exam: 50% Assessment will be through questioning the candidates to ensure that they have acquired the knowledge learned in this module. Questioning will be carried out orally.	

06. Work-based Learning

<p>Module/Unit Description</p>	<p>This module will offer students work-based learning experience to complement and add to learning in the classroom. Learners will gain a thorough understanding to manage the work at hand and to gain the necessary skills and competences to carry out the work.</p> <p>Learners are required to show that they have:</p> <ul style="list-style-type: none"> ▪ acquired the skills and abilities to perform the job in a competent way, ▪ the core knowledge required to perform the job in a competent manner, ▪ the required standards of ethical practice expected of practitioners doing the job. <p>Type: Compulsory Module for learners undertaking the ‘Award in Monitoring and Control of Trenching and Pipelaying Projects’ including Work-based Learning (27 ECTS)</p>
<p>Learning Outcomes</p>	<p>Competences: – at the end of the module/unit the learner will have acquired the responsibility and autonomy to:</p> <ol style="list-style-type: none"> a) monitor and record the basic principles of flow and pressure in water systems, b) read standard drawings and their schematic formats and symbols, c) examine and discuss excavation practice and procedure including safety aspects and site upkeep, d) be responsible for the supervision of the re-instatement of manholes and chambers in roads to the required standards, e) review the main technologies used in mains laying, f) ensure that new services are laid down to the required specifications, g) ensure that service pipes repairs and alterations have been carried out effectively, h) supervise the disinfection of water mains, i) deal with customers and enhance the Corporation’s image, j) capable of ensuring the use of health & safety measures, k) manage basic digital technology, l) be responsible for documentation of works carried out. <p>Knowledge – at the end of the module/unit the learner will have been exposed to the following:</p> <ol style="list-style-type: none"> a) define the basic principles of flow and pressure in water systems, b) identify standard plans and schematics formats and with symbols, c) the excavation practice and procedure including safety aspects and upkeep, d) identify re-instatement of manholes and chambers in roads to the required standards, e) define the main technologies used in mains laying, f) recall that new services are laid down to the required specifications, g) recall that service pipes repairs and alterations have to be carried out effectively, h) describe the disinfection of water mains, i) recall ways to deal with customers and enhance the Corporation’s image,




	<ul style="list-style-type: none"> j) list the health & safety measures to be used when carrying out work, k) identify basic digital technology, l) draw documentation of works carried out. 	
	<p>Skills – at the end of the module/unit the learner will have acquired the following skills:</p>	
	<p>Applying knowledge and understanding</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) define the basic principles of flow and pressure in water systems, b) read standard drawings and their schematic formats and symbols, c) examine and discuss excavation practice and procedure including safety aspects and site upkeep, d) supervise the re-instatement of manholes and chambers in roads to the required standards, e) analyse the main technologies used in mains laying, f) check that new services are laid down to the required specifications, g) check that service pipes repairs and alterations have been carried out effectively, h) be familiar with the disinfection of water mains, i) deal with customers and enhance the Corporation’s image, j) plan work using health & safety measures, k) use basic digital technology, l) prepare documentation for works carried out. 	
	<p>Judgment Skills and Critical Abilities</p> <p>The learner will be able to:</p> <ul style="list-style-type: none"> a) supervise and control pipelaying works; b) supervise and control excavation and reinstatement c) supervise and control the installation of service pipes d) supervise and co-ordinate the disinfection and testing of mains e) supervise work and ensure health and safety on site 	
<p>Hours of Total Learning for this Module / Unit</p>	<p>Total Contact Hours: 0</p>	<p>Supervised Placement and Practice Hours: 349</p>
	<p>Self-Study Hours: 120</p>	<p>Assessment Hours: 6</p>
<p>Total Learning Hours of this Module</p>	<p>475 Hours</p> <p>Participants are required to prepare a daily log of works carried out (2 hrs daily). This is self study.</p> <p>Work-based Learning Assessment: 30% (assessing ‘Daily Logs’ forms).</p> <p>The daily logs will then be <u>assessed</u> by the supervisor and a mark is given.</p> <p>There will be discussion-based meetings on the daily logs every 2 weeks.</p>	

Total Number of ECTS / ECVET of this Module / Unit	19 ECTS / ECVETs <u>Notes:</u> 11 weeks (349hrs): 6 hrs per day work on site, and (120 self study) 2 hrs per day to fill in daily log
Delivery	<p>Work experience at the place of work i.e at WSC.</p> <p>Employees will be asked to supervise sites where works are being carried out.</p> <p>The project managers (WSC Professional employees) manage a number of projects. They will assign these to the site-supervisors. Therefore, learners need to know what the job entails to be able to monitor and check works being carried out by third party contractors. Through this module, the participants will put into practice the theoretical principles, knowledge and methodology learnt in the previous units as evidence that they are able to monitor and control trenching and pipelaying projects. Such work will be overseen by the Project Managers.</p>
Assessment	<p>During the work-based learning, learners are required to compile a portfolio of 'Daily Logs' forms that are used on site. These will be used as evidence from activity undertaken in a real working environment to demonstrate that students have gained the full range of skills, knowledge and behaviours learnt during classroom training and during on-site demonstrations.</p> <p>These will be verified by the supervisors (Project Managers) during spot checks. Supervisors will have the opportunity to observe learners working on site and verify the 'Daily Logs' sheets presented by the learner for each project under their supervision.</p> <p>Work Assignment: 70%</p> <p>Work Assessment: 30% (assessing 'Daily Logs' forms).</p> <p><u>Notes:</u></p> <ul style="list-style-type: none"> ▪ This will offer real work situation, with the time constraints, methods and work pressures that the normal working practice entails. ▪ The volume of work completed during the work-based learning will be comparable to that expected in the equivalent normal work situation. ▪ This will consist of the tools, equipment and materials found in the learner's workplace. ▪ The learner must interact with the range of personnel found within the workplace. ▪ This provides the learner to take into account the typical conditions they would encounter in their workplace. ▪ The learner will be aware of any and use (where appropriate) the legislation, regulations, codes of practice, etc. that they use in their workplace.

Notes:

Contact Hours:	hours invested in learning new content under the Direction of a tutor/ lecturer (e.g. lectures, participation in online forums, video-lectures).
Supervised Placement and Practice Hours:	During these hours the learner is supervised, coached or mentored).
Self-Study Hours:	Estimated workload of research and study.
Assessment Hours:	Examinations/presentations/ group work/ projects etc.)

05 Policies

Plagiarism Policy:	 T&D W 120 - Plagiarism - Work Inst
Sexual Harassment:	 CPI 024 - Sexual Harassment Policy.pdf
Equal Opportunities Policy:	 CPI 025 - Equal Opportunities Policy.p