



# ACE Safety Academy Ltd – Scheme of Work

**Module Code**

Water Jetting Awareness

**Course Duration**

1 Day

**Qualification Title**

Safety Jetting Awareness – Water Jetting Association (WJA)

**Aims and Objectives**

This course is based around a Safety Awareness Course which is the Core Module set out by the WJA as mandatory for any one person who operates water jetting equipment in industry, then subject to experience it may be necessary to attend a further module course based around your application of works, like Drains & Sewers.

**It is emphasised that this is a safety awareness course ONLY and involves no practical hands on experience on the equipment.**

**Day / Times**

**TOPIC**  
[Including Key Skills / Basic Skills]

**RESOURCES**

**COMMENTS**

**09.00am to 16.00pm**

**Introduction** – Names and Registrations of trainees, introduction of tutor and centre arrangements.

**Ice breaking exercise** – What do you know about water jetting – History of water jetting.

**Health & Safety Law and the WJA Code of Practices** – Method Statements, Risk Assessments, COSHH, Health & Safety at Work Etc. Act 1974 duties, Environmental Protection Act.

**Application of Machines** – Introduction to the uses and applications of water jetting, illustrated by examples of cleaning.

**Jetting Equipment – Nozzles & Jets** – Jet Principles, Purpose of the Nozzles, Power of Water Jet, Jet Characteristics, Pressure, Flow and Jet Reaction Force.

**Types of Nozzles** – Single Forward Facing Jets, Multi-jets, and Spinning Nozzles Etc.

Classroom, Projector and PowerPoint Presentation

Working on the basis that the delegates have little or no experience in high pressure water jetting.

In the introduction try and gather this information by good directed questioning technique and throughout the day get the students to participate on all levels.

Blue WJA Approved Code of Practice issued to each delegate attending the course.

Inspection requirements will be discussed on each of the modules covered throughout the course with the inclusion of the machines and ancillary products being effected by ICE/Frost.

	<p><b>Jetting Equipment – Pumps &amp; Ancillaries – Pump Configurations</b> - Positive displacement action, Conventional piston / Plunger pump, Operating Features, Pressure and effects of blockages pressures / flows and characteristics, Variation of plunger sizes.</p> <p><b>Drives</b> – Drive arrangements – clutch / direct coupled – Hazardous Area Equipment – Prime Movers.</p> <p><b>Water Supply &amp; Delivery</b> – Water supply, Header Tank, Tanker Unit and Water Filtration systems.</p> <p><b>Pressure Safety Relief Devices</b> – Safety Relief Valve and Bursting Discs.</p> <p><b>Pressure Indicators</b> – Gauges, Dials and Features.</p> <p><b>Dump and Dry Shut Controls</b> –</p> <p><b>Hoses</b> –General Features, End Fittings and Connections, Bore Sizes and Flow Ratings, Hose and Lance Pressure Drop.</p> <p><b>Water Jetting Hazards</b> – From Water jets, Operational Procedures and Site Environment.</p> <p><b>Water Jetting Injuries</b> – Types of Injuries and Treatment, Effects of impact of a water jet, Nature of internal injuries caused by water. Actions in the event of an injury.</p> <p><b>Personal Protective Equipment (PPE)</b> – main Body Protection, Hands and Feet protection, Hearing Protection and Respiratory Protection.</p> <p><b>Course Examination / Results and Close</b></p>		
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