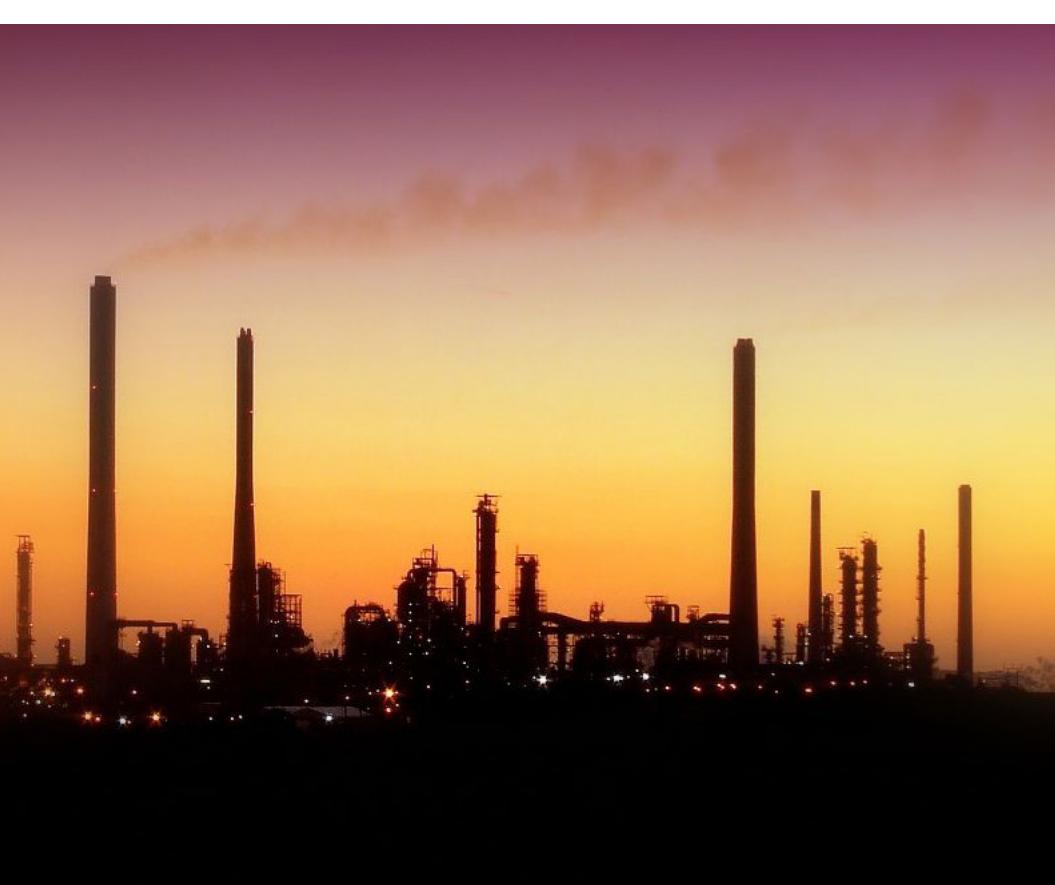


# **STONEAGE TRAINING**

For Industrial Cleaning Professionals

Increase  
Safety  
Productivity  
Profitability

**COURSE CATALOG**





## WHY IS TRAINING IMPORTANT TO US?

The use of high pressure waterjetting as a primary means to clean is growing around the world.

Like all types of cleaning, waterjetting can be very dangerous if performed improperly.

**SAFETY IS OUR FOUNDATION –**  
We believe every waterjetting professional should return home safely to his or her family every day.



**StoneAge Training is built on 40 years of engineering and industry experience.** We're able to broadly share our knowledge through the training vehicle – no other program covers this level of engineering detail.

**Increasing proficiency and profitability is our sweet spot.** We want to equip industrial cleaning professionals with the education, tools, and hands-on experience to become highly skilled, high-performing service providers.

**Retention is an issue.** Empower your employees to take more ownership of their operations.

*StoneAge has a vision of a safer and more productive industry.*

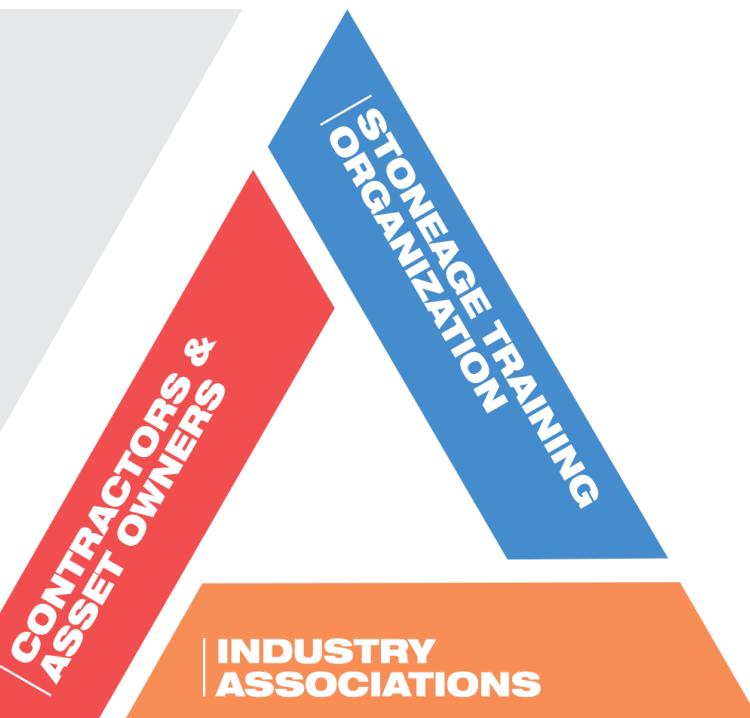


## BE THE SAFEST, BE THE BEST

StoneAge has a vision of creating training programs and facilities where we can impart 40 years of technical and engineering expertise to operators, supervisors, asset owners, and process engineers. These industry professionals will become proficient and highly skilled.

Through training, we can bolster and grow the use of high-pressure water as a safe, environmentally friendly, and effective method of cleaning across a wide range of industries.

1. Train and certify **Contractors** so they can meet and exceed the expectations of Asset Owners
2. Educate **Asset Owners** on high pressure cleaning and the benefits of choosing trained and certified contractors
3. Align training with the safety, practical, and examination requirements of **Industry Associations** (including SIR, WJA, and WJTA)



**We support all industry stakeholders in their mission towards increased safety, productivity, and profitability.**

StoneAge is an unbiased facilitator between plants and contractors. Open collaboration between parties is key in continuously improving safety and operational training, employee competency and expertise, addressing challenging applications, and selecting the right equipment and methods.

**We're here to make all parties successful.**



As a founding leader of the **GLOBAL INDUSTRIAL CLEANING COALITION (GICC)**, StoneAge aims to:

- Propagate safe practices
- Track, learn from, improve, and prevent unsafe practices that result in injury or death
- Promote the adoption of automated equipment (AE)
- Teach operators how to optimally perform their work
- Train asset owners in the basics of waterjetting
- Teach the safety standards that are, or will be, adopted by safety/training organizations, contractors, and asset owners worldwide

The Global Industrial Cleaning Coalition (GICC) is a group of industrial cleaning safety associations, asset owners, contractors, and equipment manufacturers voluntarily coming together to contribute to the creation and adoption of basic industrial cleaning principles around the world.

#### SAFETY ASSOCIATIONS

- WJTA (USA)
- SIR (Benelux)
- S3C (France)
- WJA (UK)

#### ASSET OWNERS

- DOW Chemical
- DuPont
- Total
- BASF



Global Industrial Cleaning Coalition

## THE SEVEN BASIC WATERJETTING PRINCIPLES

**1**

**JOINT RESPONSIBILITY** between asset owners, manufacturers/suppliers of equipment, and industrial cleaning contractors

**2**

### THREE AREAS OF FOCUS

**Methods** – Use of safest possible processes

**Means** – Proper maintenance and use of equipment, tooling, and technology

**People** – Personal responsibility, safety awareness and training

**3**

### KNOWLEDGE SHARING ENCOURAGED

New developments in safe working practice are followed and sharing knowledge is encouraged — when incidents happen, the appropriate parties are notified, they are discussed anonymously, and guidelines are amended if necessary

**4**

**EDUCATION & TRAINING** is an ongoing requirement for waterjet operators and supervisors

**5**

### WORKING ACCORDING TO SAFE METHODS

Waterjetting should be carried out using the safest and least physically arduous working method possible, keeping everyone safe and out of the line of fire

**6**

### WORKING WITH SAFE EQUIPMENT

Follow set requirements for:

**Operating pressure**

**Maintenance and inspection**

**System setup & components**

**Hazards identification**

**Lockout-Tagout**

**Moving parts**

**7**

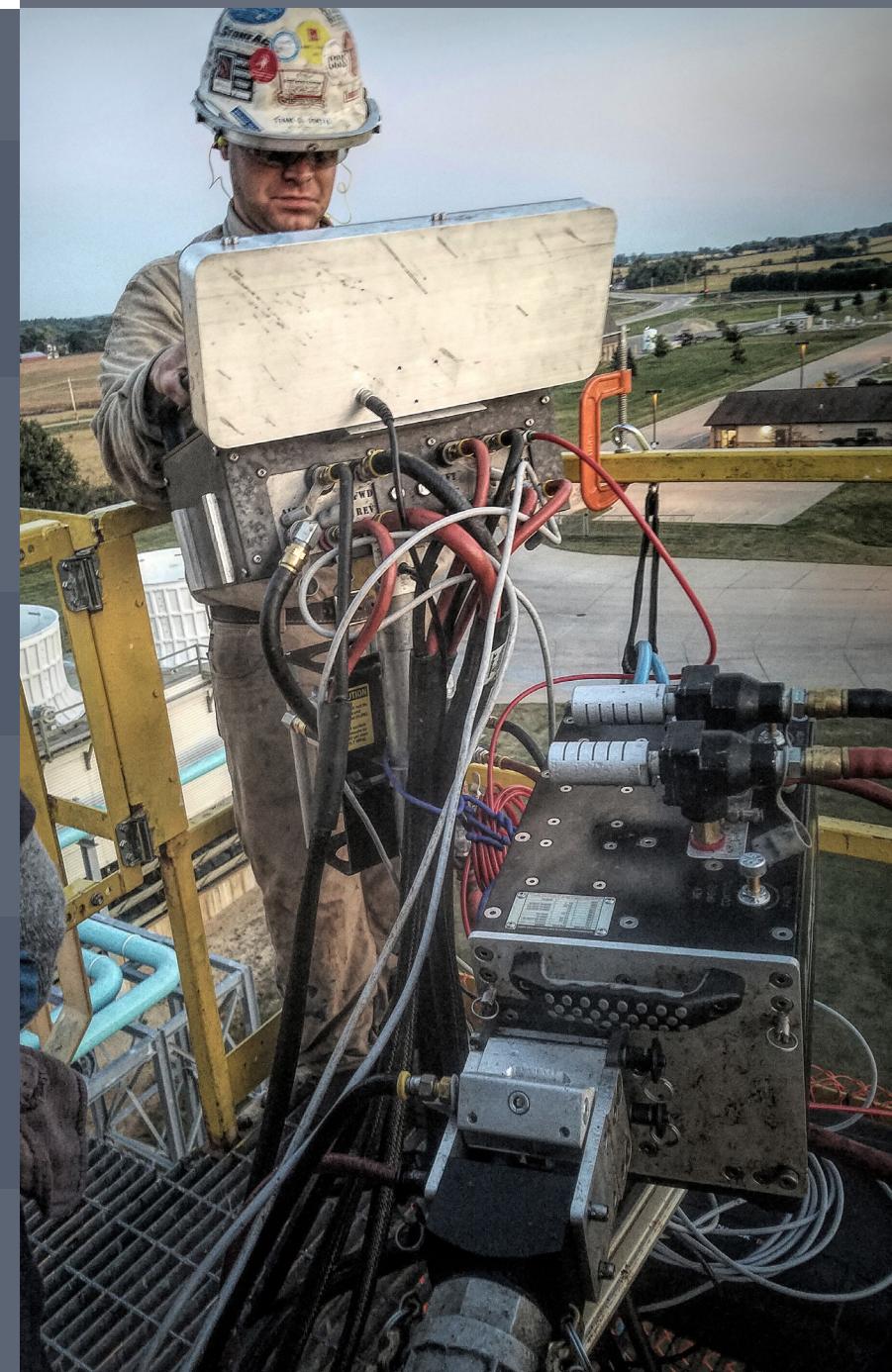
### ASSURANCE OF THE GUIDELINES

**Contractors**

**Asset owners**

**Personnel**

**Equipment**



### HOW YOU CAN HELP

The purpose of the GICC is to help save lives and reduce injuries in industrial cleaning through collaborative development and promotion of basic industrial cleaning principles. Membership is open to anyone in the industry.

### WHY JOIN?

- **Have a seat at the table** – influence the development of global cleaning principles
- **Be a thought leader** – elevate your organization's perception as a leader in safe cleaning practices on the global stage
- **Represent national guidelines** – the GICC aims to gain the support of national safety associations in the adoption of global cleaning principles; be sure that your voice is represented
- **Promote what you believe in** – we all share the common goal of educating our stakeholders in safe industrial cleaning practices; the GICC is another way to promote your mission and values
- **Be part of something bigger** – there is no need for unnecessary injuries and deaths anywhere in the world; be part of a global shift in mindset that will help save lives

**Visit us on LinkedIn to SIGN UP!**





## TRAINING OVERVIEW

Give your team the skills they need to be safe and effective on the most challenging high-pressure jobs.

### WJA TRAINING UK & International

Accredited safety and application training designed to give water jetting operatives a firm foundation for delivering safe service to a recognised and uniform standard.

#### TOPICS COVERED

- Health and Safety Awareness
- Practical Modules:  
Drain and Sewer Cleaning, Surface Preparation, Tube and Pipe Cleaning, Hydrodemolition, Pressure Washing
- Level 2 Water Jetting Technician Certificate
- Water Jetting For Managers

### WJTA TRAINING North America

Consistent, certified entry-level instruction on the safe and effective use of high-pressure cleaning methods.

#### TOPICS COVERED

- WJTA Foundational Training (FT)
- WJTA Field Verification (FV)

### WATERJETTING SAFETY FOUNDATIONS

Online foundational safety training for high-pressure waterjet operators available globally where industry accreditation is not an option.

#### TOPICS COVERED

- Waterjetting Safety Overview
- High Pressure Equipment Overview
- Job Site Considerations
- Personal Protective Equipment (PPE)
- Waterjet Injury Prevention

### PUMP TRAINING

Understanding the functional capabilities of the pump within a waterjetting system enables more efficient utilization for the parameters of a job.

#### TOPICS COVERED

- Pump terminology and components
- Positive Displacement Pump theory & configuration
- Controls and fluid handling
- Basic operation

### WATERJETTING SCIENCE AND TECHNIQUE

Advanced course in waterjet theory that covers technical concepts and calculations so you can solve problems, improve cleaning, and outperform your competitors.

#### TOPICS COVERED

- Understanding pressure for waterjetting
- Material jettability
- Optimizing waterjet power
- Harnessing the power of the pump
- Quality jetting: nozzle materials and design
- Upstream conditions and jet impact
- Managing pressure loss
- Benefits of rotation
- Fitting and hose identification

### JOB OPTIMIZATION

Learn to apply Waterjetting Science and Technique concepts to real-world scenarios using job planning tools and calculators for considerable savings in time, water, fuel, emissions, and overall cost.



**StoneAge supports safety standards and recommended practices for high pressure cleaning backed by the world's leading industry associations.**



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*The training we received from StoneAge helped our employees better understand how to apply critical thinking and to troubleshoot the process problems that sometimes happen in the field. I would certainly recommend this training for anyone working in the water blasting industry.*

— Ryan Newman  
Augusta Industrial Services