

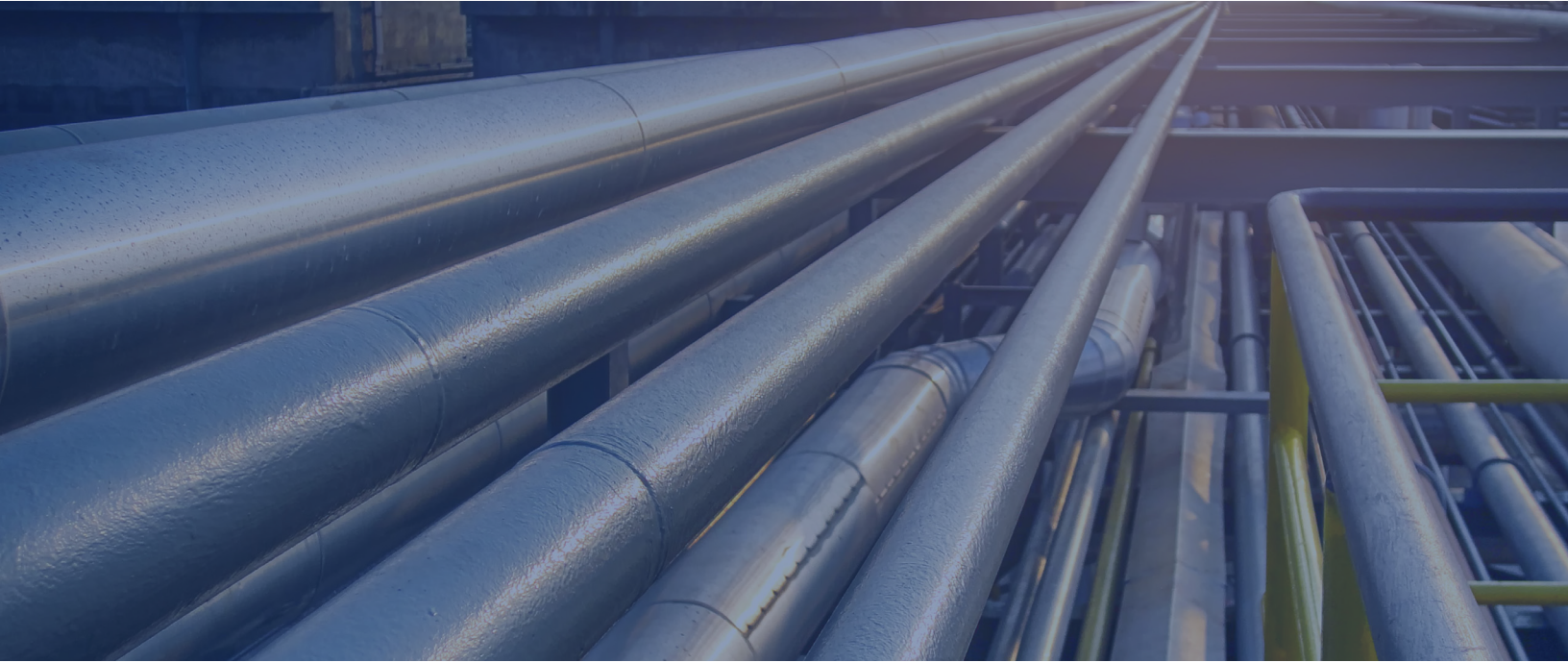
STANDARDIZED HYDROBLASTING TRAINING AND CERTIFICATION



- Communication is key to safety, and training provides the foundation to communicate. We all recognize that safe success within a project or turnaround depends on all parties being on the same page. Assumptions and inconsistencies are dangerous and unacceptable.
- We present a standardized model that brings safe and effective communication into all phases of hydroblasting configuration, planning, and execution.
- We'll look at three broad principles that harmonize between facility owner, service provider, and safety association.

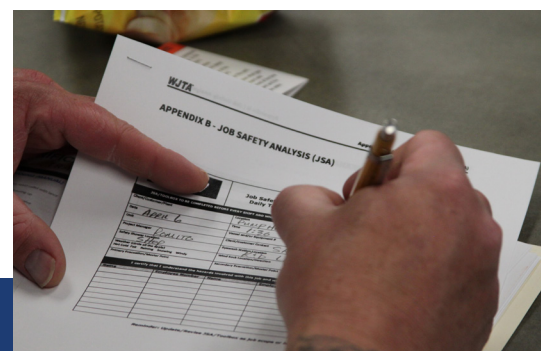


SAFETY AND SUCCESS THROUGH COMMUNICATION



Principle 1 - JOINT RESPONSIBILITY

- Safe industrial cleaning depends on the shared responsibility between asset owners, cleaning contractors, and equipment manufacturers.
- All parties must exhibit a sense of ownership in completing the project within specified parameters without incident or injury. The necessary practices for hazard mitigation and necessary education for efficient operation must be recognized prior to approaching a project or turnaround. This harmony will make your operations successful!
- Expectations – whether between supervisors and laborers or between asset owners and contractors – are easily set when the standard is consistently communicated.



SAFETY AND SUCCESS THROUGH COMMUNICATION

Principle 2 - THREE AREAS OF FOCUS



Methods: *use the safest possible method and process to clean.*

- Automated equipment should be the first method considered.
- Trained and certified employees are taught in a progressive manner that creates awareness for automation selection as a primary approach. Trainees begin with stringent competency checks using manual equipment, and “graduate” to the use of automated means to complete the same tasks.
- Automated and semi-automated (or mechanized) methods of cleaning exist for many applications as off-the-shelf packages.
- Trained and certified employees hold the power of awareness – even at the entry level. Regardless of OEM, trainees know the avenues to seek the safest equipment available to them.



Means: *properly select and use the right type of equipment and tooling.*

- Trained and certified employees have proven proficiency in physical operation and manipulation of standard hydroblast practices; qualified by the Verified Trainer administering.
- Asset owners and service providers will move through JSAs, tailgate meetings, audits, and project planning effectively knowing the available methods and the baseline standards to be followed.



People: *take personal responsibility to know and follow safety guidelines; commit to training.*

- Trained and certified individuals own their certification and possess knowledge to begin, retain, and expand their means of executing their craft wherever their employment lies.
- Trained and certified individuals are provided with all “right-to-know” lifesaving information as well as functional “know-how” for success.
- Individuals should know what’s expected of them, and know what they expect from everyone else. The expectation is shared.

SAFETY AND SUCCESS THROUGH COMMUNICATION



Principle 3 - STAFF EDUCATION AND TRAINING

- Operators and supervisors are educated and trained on how to work safety and effectively. They are committed to ongoing and repeated training.
 - Universal minimum threshold expectation
 - Personal indefinite certification with (3 year) refresher renewal – continuously updated as industry technology and safe work practices evolve
 - Secure, central, accessible recordkeeping



2-PART OPERATOR CERTIFICATION



WJTA FOUNDATIONAL TRAINING (FT)

WJTA Foundational Training (FT) provides an overview of the *Industry Best Practices for the Use of High Pressure Waterjetting Equipment* and is a **REQUIRED PREREQUISITE** for Field Verification (FV). This is an interactive computer-based module developed and managed by the WJTA. FT is offered at multiple HASC/ARSC locations or remotely delivered via Online LINKTrain.

- Computer-based training with examination
- Required prerequisite for WJTA FV
- Certification valid for 3 years
- Course duration: 3 hours
- HASC Course Code: 19HBFT



WJTA FIELD VERIFICATION (FV)

WJTA Field Verification (FV) is a rigorous, entry-level training on system setup, pre-job inspection, and manual and automated high-pressure cleaning operations across shotgunning, flex lancing, and line moleing applications.

FV is hands-on training with a practical assessment – students are required to successfully demonstrate competencies on the FV Checklist as evaluated by a WJTA Verified Trainer.

- Training covers primary waterjet cleaning applications: shotgunning, flex lancing, and line moleing
- High-pressure system setup and operation
- Manual and automated
- No expiration on certificate
- Course duration: 1.5 days
- HASC Course Code: 19HBFV



ADDITIONAL RESOURCES FOR ASSET OWNERS



WJTA HYDROBLASTING BASICS FOR PERMIT WRITERS

This brief eLearning module was developed in collaboration with the Houston Business Roundtable (HBR) to provide an easily accessible introduction for asset owner personnel. The course is suitable for individuals with no previous knowledge of industrial cleaning and includes information on hydroblasting applications, hazards, and several engineering controls to help mitigate hazards.

- Computer-based training with examination
- Course duration: 30 minutes
- HASC Course Code: 19WJTAPW

CUSTOMIZED SAFETY SEMINARS

WJTA can deliver in-person or remote seminars customized to a facility's needs in order to provide safety associates, operators, and permit writers with a deeper understanding of hydroblasting risks and safe work practices. The goal of these seminars is to provide asset owners the tools to properly oversee industrial cleaning work, understand how to most effectively partner with the contractor, and field identify hazards or variances from established best practices.

- Classroom training with optional live equipment demonstrations
- Covers surface, tube, pipe and vessel cleaning
- Manual and automated equipment best practices
- Optional coverage of abrasive waterjet field cutting
- Certificate of completion
- Course duration: 3-8 hours