



SSPC Initiatives in Standards Development, Training, and Certification

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Standards

- SSPC-SP 12/NACE No. 5 (Surface Preparation and Cleaning of Metals by Waterjetting Prior to Painting)
- Surface Preparation by Wet Abrasive Blast Cleaning (Joint SSPC/NACE standard)
- Wet Abrasive Blast Cleaning Systems (Joint SSPC/NACE report)
- Sponge Encapsulated Abrasive Media (SSPC standard)
- Guide to Protection of Edges, Crevices, and Irregular Surfaces by Stripe Coating (SSPC guide)
- SSPC QP 1 revision



SSPC-SP 12/NACE No. 5

Surface Preparation and Cleaning of Metals by Waterjetting Prior to Recoating

- In existence for 13 years
- Defines levels of visible contaminant
- Defines levels of flash rust
- Problem is
 - > 4 WJ grades in 1 standard
 - > Specifier must select WJ and Flash rust grade

Revise SP 12

- Separate WJ grades into individual standards
- Define 9 sq. in area for inspection criteria
- Third draft in preparation, ballot anticipated before June 2009



New Standard for Wet Abrasive Blast Cleaning (WAB)

- Waterjetting great for dust control and removing many non-visible contaminants
- Waterjetting can't create or modify profile but will reveal existing profile
- Solution: add some abrasive media
- This controls dust while enabling profile modification

SP by WAB

- Definitions of cleanliness determined immediately after cleaning (before flash rust develops) identical to definitions in dry blast cleaning standards
- Definitions of flash rusting levels will be the same as those in revised waterjetting standards
- Immediately before painting, surface shall be free of flash rust to the extent required by project specification (same as WJ)

SP WAB Concerns

- Standard is badly needed now - no standardized process exists
- Same problem as current SP 12 - 4 cleanliness levels in 1 standard
- May consider a similar separation into 4 standards
- Draft in preparation, ballot anticipated May 2009 – publish fall 2009



Modification of AB 1 (Mineral and Slag Abrasives)

- Clarifications of contractor testing requirements vs. supplier testing requirements
- Optional appendix that can be invoked to address US Navy requirements for friability, crystalline silica, hazardous waste minimization, and radioactivity
- Ballot Draft #2 anticipated late April 2009
- Publication by autumn 2009

New Standard for Encapsulated Media

- Alternative to use of wet cleaning methods in applications where dust control is important
- Can reduce risk of damage to sensitive surroundings from ricochet of hard abrasive media
- Type of media in composite will affect cutting - can be varied to meet user needs

Encapsulated Abrasive Standard

- Sets performance requirements for various composite abrasives: grit or mineral cleaning media and a soft sponge-like material
- Standard also allows use of recycled media if the work mix continues to maintain required surface profile and cleanliness
- Standard also provides requirements for determining efficiency of recycling equipment for media
- Ballot anticipated April 2009, publication in autumn 2009



SSPC-PA Guide 11, Protecting Edges, Crevices, and Irregular Steel Surfaces by Stripe Coating

- Problem: Coatings on sharp edges, outside corners, bolt heads often fail prematurely
- Guide provides specifier with information on current best practices for providing extra coating thickness, and thus additional corrosion protection, to these areas
- Completed Guide issued August 2008

SSPC-PA Guide 11

- Guide discusses
 - > Modifying edges by grinding, chamfering
 - > Guidance on application and use of stripe coats:
 - how to stripe
 - when to stripe
 - selection of coatings

SSPC-PA Guide 10

- Guide to Safety and Health Requirements for Industrial Painting Projects
- Issued August 2008
- Provides guidance for facility owners and project specifiers who have a mandate to incorporate appropriate requirements for safety and health program submittals and associated acceptance criteria in contract documents.
- Gives some examples of project specification language



SSPC Coating Application Specialist Certification Program (CAS)

- 1st Professional Certification Program for the industrial painter in the USA
- Based on consensus standard SSPC ACS-1/NACE 13 “Applicator Certification Standard No. 1, Industrial Coating and Lining Application Specialist Qualification and Certification”-published January 1, 2008

SSPC ACS-1

- Scope-defines criteria for education, training, experience, knowledge and skills required for the professional industrial painter.
- Long overdue method to recognize the skills of the industrial painter.

Four Levels of Recognition (CAS)

- Level I Qualification = Trainee
- Level II Certification = (Core area Body of Knowledge and grasp of fundamental blasting and painting skills)
- Level II + Specialty Supplemental Programs
- Level III = Level II + Supervisory Skills

The background of the slide features a blue-tinted image of a ship's superstructure on the left side, showing various masts, antennas, and equipment. The rest of the background is a warm, abstract pattern of orange and yellow light rays.

Level II Certification (Interim and Full Status)

- SSPC currently offers transition plan (interim) certification and full status certification.
- Level II defines requirements for the experienced industrial painter able to work independently.
- May need traditional supervision but can prepare, start, stop and clean up without direction (knows the fundamentals of the trade without second thought).

Level II-Interim Status

- Designed for craftworkers in current workforce who have the skills but lack the formal training required by ACS-1.
- Provides the opportunity to achieve professional certification in the near term.
- Provides owners, who want to specify a ratio of certified craftworkers to trainees on a job, a ready pool (within the next year or two) of qualified painters.

Interim Status (Cont'd) (2 Tracks)

Track A

- Minimum 150 hours formal applicator (coatings technical) training such as that offered by the FTI.
- Minimum 2,000 hours of on the job experience (blasting and painting).
- Pass written exam (70%). Approximately 80 questions on blasting and painting fundamentals.
- Pass hands-on skills assessment—blasting and painting a steel test panel.

Interim Status (Cont'd)

Track B

- Minimum 3,000 hours (3 years) experience—challenge the exam without required formal training.

Interim Status (Cont'd)

- Three-year certification term—limit two terms (6 years).
- Must advance to full status certification to maintain certification after completion of two terms.

Full Status

For those craft workers who meet the requirements of ACS-1:

- Pass hands-on skills assessment (same exam as interim status hands on).
- Pass more detailed written exam (70%).

Track A

- Complete three-year formal apprenticeship.
- Complete 450 hours of formal applicator training meeting the Body of Knowledge requirements of ACS-1.

CAS Certification Prerequisite Requirements

SSPC CAS Program offers three processes to achieve full status certification.

	Pre Req. Item #1	Pre Req. Item #2	Pre Req. Item #3
	Cert Exam	Verifiable Work Experience	Training Experience
Process A	Pass written exam with a 70% or greater and pass hands-on exam with a 90% or greater	Successful completion of a three-year apprentice program (equivalent to 3,000 hours of work experience)	450 hours of accepted formal training
	Related work is defined as work as an abrasive blaster and an industrial/marine coating applicator using spray techniques.		
Process B	Pass written exam with 70% or greater and pass hands-on	Minimum 5,000 hrs (equivalent to 5 years work experience)	450 hours of accepted formal training

Level II Specialty areas (future)

- Coating of Concrete
- UHP WJ
- Electrostatic Spray
- Plural Component Spray
- Powder Coatings
- Specialty Pipeline Coatings
- Thermal Spray

Level III Certification (future)

- Painters who have the skills to plan and oversee or supervise painters.
- Requirements: Level II + 1,000 hours of related work experience after Level II or:
 - > 1,500 hours work experience (inspection, supervision, project management)
 - > Pass Level III written exam
 - > Available 2010

Any Questions?

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