SSPC Trainthepainter (TTP)

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SSPC Trainthepainter Webinar
Agenda

• Who is SSPC
• Benefits of Training
• What is Trainthepainter (TTP)
• Why Trainthepainter (TTP)
• TTP Modules
• TTP Hands-On
• Certifications & Career Path
• Questions
Who is SSPC
Who is SSPC

The Society for Protective Coatings
Founded in 1950 as the Steel Structures
Painting Council
A not for profit 501 (c) (3) – spun off of
Carnegie Mellon University
SSPC Mission

To inspire learning, advance knowledge, and elevate performance in the industry through training, certification, and education of the workforce, communication of advances in technology, and promotion of the use of protective coatings.
SSPC at a Glance

• Located in Pittsburgh, Pennsylvania
• Staff of 41 employees
• Membership Organization:
  • ~11,500 individual members worldwide
  • > 900 corporate members worldwide
• Global Reach
  • Training offerings in over 20 Countries
  • 6,500+ global students trained in 2016
SSPC Core Products & Services

- Industrial coatings industry standards
- Technical publications
- Training and certification courses
- Painting contractor certification programs
  - QP Certifications
- Conferences, events, and webinars
Benefits of Training
Benefits of a Training

**Morale** – Staff satisfaction is very important within a company. If individuals are satisfied with their roles, then morale is increased, which, in turn, increases work output. Training helps to make people more confident in their role, which directly improves morale.
Benefits of a Training

**Productivity** - Better training means better processes. Tasks can be performed far quicker if employees know what they’re doing, and quality of work will also improve.
Benefits of a Training

**Safety** – In any business, staff safety is the number one priority. Employees lacking in knowledge and skill are more likely to have an accident in the workplace.
Benefits of Training

Value – Well-trained employees become assets for a business. They add value to the company as a whole, and make internal promotion easier. Promotion from within is of obvious benefit to a company.
Benefits of a Training

**Independence** – Fewer supervisors are needed when staff know exactly what they need to be doing, and how they need to do it.
What is Trainthepainter (TTP)
What is Trainthethepainter

• Trainthethepainter (TTP) is an innovative and unique coating applicator training program that has been written and developed by industry experts

• TTP is internationally recognized, endorsed by Lloyd’s Register, and the extensive training material meets the high standards required by companies worldwide
What is Trainthepainter

• TTP is designed to prepare craftworkers to perform in a variety of industries including:
  – Water / Wastewater
  – Power Generation / Transmission
  – Transportation (DOTs, i.e., Bridges, etc.)
  – Rail
  – Marine (Civil and DOD)
  – Oil / Gas / Fracking / Chemical
Why Trainthepainter
Why Trainthepainter

- SSPC has identified shortcomings within the industrial coatings marketplace, particularly formal training for applicators
- TTP Meets QP Standard for formal training
- TTP Meets the SSPC ACS-1 standard
Why Trainthepainter

- Trainthepainter will prepare employees to take certification exams, such as:
  
  ✓ SSPC CAS Level 1 Coating Applicator Specialist Certification
  ✓ SSPC C6 Applicator Certification
  ✓ SSPC C7 Abrasive Blasting Certification
  ✓ SSPC C12 Spray Applicator Certification
  ✓ SSPC CAS Level 2 Coating Applicator Specialist Certification
Why Trainthepainter

- The Certification Exams for the C6, C7, C12, and CAS have been blue-printed / mapped to the TTP curriculum content (Flowchart to follow)
Why Trainthepainter

The Trainthepainter curriculum is designed to hold the interest of the participant through the use of:

– Short videos
– Animations
– Hands-On Workshops
– Voice-Over PowerPoint
Why Trainthepainter

• Trainthepainter can be used to provide training for a variety of employees from new hires to seasoned workers looking to advance their careers

• Trainthepainter is in the process of becoming an approved apprenticeship program
Why Trainthepainter

• The Trainthepainter course is continuously updated, ensuring all content is in line with industry changes and new developments
• The TTP program can be done at your location, at your pace, and on your schedule
• Provides wallet cards indicating the training level
Why Trainthepainter

The Trainthepainter program combines:

- Hand/Power Tool
- Brush/Roll
- Blasting
- Spraying
- ....And comprehensive health and safety training

The result will be highly qualified and trained craft workers
Why Trainthepainter

Languages

1. English, UK
2. English, American
3. Simplified Chinese
4. Spanish
5. French
6. Portuguese
7. Korean
8. Polish
9. Lithuanian
10. German Coming Soon
11. Russian Coming Soon
Why Trainthepainter

• **Quantifiable Impact!!**
  - Reduce re-work
  - Use less raw material
  - Reduce man hours lost do to injury
  - Equipment use and maintenance improved
  - Higher margins!!!
TTP Modules
Trainthepainter Modules

Contractors can train their employees themselves in the following modules:

- TTP -2 Protective Coatings Applicator
- TTP -3 Abrasive Blast Cleaning
- TTP -4 Spray Painting
TTP 2 - Protective Coating Applicator

- This is the base module of Trainthepainter that covers:
  - Health and Safety
  - Access and Equipment
  - Surface Preparation
  - Paint Types
  - Paint Application
  - Quality Control
TTP 3 - Abrasive Blaster

- Introduction
- Health and Safety
- Blast Media
- Standards and Quality Control
- Operational Procedures
- Process Control
TTP 4 - Spray Painter

- Introduction
- Health and Safety
- Paint Materials
- Airless Spray Equipment
- Conventional Air Spray Equipment
Once both silver cards are earned, the trainer will then have the opportunity for their craftwork to earn his/her CAS Level 1 certification.

Proctored by a third party, this written exam consists of 50 questions, and requires a 70% or higher to pass.

There is no hands-on exam.
TTP Specialty Modules

- Marine Coatings
- Water Jetting
- Thermal Metal Spraying
- Coating of Concrete
- Plural Component Spray

Coming Soon:
- Electrostatic Spray
- Powder Coating
- Specialty Pipeline Coating
TTP Hands-On Workshops
<table>
<thead>
<tr>
<th></th>
<th>Workshop Details</th>
<th>Duration</th>
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<tbody>
<tr>
<td>1.10</td>
<td>Personal Protective Equipment</td>
<td>45 min</td>
</tr>
<tr>
<td>1.12</td>
<td>Safety In Surface Preparation</td>
<td>30 min</td>
</tr>
<tr>
<td>1.13</td>
<td>Safety In Paint Application</td>
<td>30 min</td>
</tr>
<tr>
<td>3.2.1</td>
<td>Mechanical / Hand Preparation Standards</td>
<td>30 min</td>
</tr>
<tr>
<td>3.2.2</td>
<td>Pre-surface Condition</td>
<td>30 min</td>
</tr>
<tr>
<td>3.2.3</td>
<td>Pre-surface Preparation / Cleaning</td>
<td>15 min</td>
</tr>
<tr>
<td>3.3.1</td>
<td>Chipping Hammer</td>
<td>15 min</td>
</tr>
<tr>
<td>3.3.2</td>
<td>Wire Brush</td>
<td>15 min</td>
</tr>
<tr>
<td>3.3.3</td>
<td>Scraper</td>
<td>15 min</td>
</tr>
<tr>
<td>3.3.4</td>
<td>Needle Gun</td>
<td>45 min</td>
</tr>
<tr>
<td>3.3.5</td>
<td>Power Wire Brush and Grinding</td>
<td>45 min</td>
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</tbody>
</table>
Hands-On Workshops
Protective Coating Applicator

• 3.4.1  Steam Cleaning 30 min
• 3.4.2  Water Washing 30 min
• 3.4.3  Solvent Cleaning 15 min
• 4.4    Paint Mixing 30 min
• 4.5    Pot Life / Induction 15 min
• 5.1.1  Relative Humidity and Dew Point 15 min
• 5.1.2  Steel Temperature Gauges 15 min
• 5.2.1  Brush Application 30 min
• 5.2.2  Roller Application 30 min
Hands-On Workshops
Protective Coating Applicator

- 5.3.1 Wet Film Thickness 30 min
- 5.3.2 Dry Film Thickness 30 min
- 5.3.4 Stripe Coat 30 min
- 5.4.1 Surface Cleaning 15 min

- Minimum total Practical Assessment time for Protective Coating Applicator: 9 Hours
Hands-On Workshops

Abrasive Blaster

- 2.3  Personal Protective Equipment  60 min
- 2.4  Breathing Air / Helmet  60 min
- 3.1  Types of Abrasive  30 min
- 4.1  Visual Standards  30 min
- 4.3  Environmental Conditions  60 min
- 5.1  Compressed Air and Air Requirements  60 min
- 5.2  Blast Hose and Associated Equipment  60 min
- 5.3  Types of Nozzles  30 min
- 5.5  Communication  60 min
Hands-On Workshops
Abrasive Blaster

• 6.1 Abrasive Blast Cleaning Equipment Set-up 120 min
• 6.2 Abrasive Blast Cleaning Process 120 min
• 6.3 Abrasive Blast Cleaning Standards 30 min

• Minimum total Practical Assessment Time Abrasive Blaster: 12 Hours
Hands-On Workshops
Spray Painter

• 4.1.1 Airless Spray Painting Equipment A 30 min
• 4.1.2 Airless Spray Painting Equipment B 90 min
• 4.2 Airless Spray Equipment Set-Up, Testing and General Use 360 min

• Minimum total Practical Assessment Time Spray Painter: 8 Hours
Approved Trainers

• Must complete a 2-day **Train The Trainer** course

• Have at least 5 years experience as a protective coating applicator, supervisor, or coatings inspector

• Have a coating inspector qualification, such as SSPC PCI Level 2, NBPI, FROSIO Level 2, NACE Level 2, Icorr Level 2, or SSPC CAS Full Status

• The approved instructor has access to all the course material via an online web portal
Certifications and Career Path
What does TTP Prepare the Student for?

Once a contractor has trained their employees to TTP 2/3/4, they then can contact SSPC to come and certify their employees to the following programs:

- SSPC C6 Applicator (Hand & Power Tool - Brush & Roll)
- SSPC C7 Abrasive Blaster
- SSPC C12 Spray Painter
- SSPC CAS Coating Applicator Specialist
PROTECTIVE COATING APPLICATOR MODULE

TTP1 APPLICATOR TRAINEE
Prerequisites: None
Training: 40 hours of Lectures and Hands-On Workshop
Exam: Written & Practical

ABRASIVE BLASTING MODULE

TTP2 APPLICATOR
Prerequisites: 1600 Hours of onsite work experience**
Training: 40 hours of Lectures and Hands-On Workshop
Exam: Written & Practical

SPRAY PAINTER MODULE

TTP3 ABRASIVE BLASTER
Prerequisites: TTP2 Applicator
Training: 24 hours of Lectures and Hands-On Workshop
Exam: Written & Practical

TTP4 SPRAY PAINTER
Prerequisites: TTP2 Applicator
Training: 16 hours of Lectures and Hands-On Workshop
Exam: Written & Practical

= TTP5/CAS LEVEL 1 COATING APPLICATION SPECIALIST LEVEL 1
Prerequisites: Non-required
Training: Completion of TTP2 Applicator Module, TTP3 Abrasive Module, TTP4 Sprayer Module
Exam: Written *** ****

SSPC C6 APPLICATOR CERTIFICATION
Prerequisites: 150 Hours of Applicator Experience
Training: Completion of TTP2 Applicator Module
Exam: Written & Practical

SSPC C7 ABRASIVE BLASTER CERTIFICATION
Prerequisites: 800 Hours of Blasting Experience
Training: Completion of TTP3 Abrasive Module
Exam: Written & Practical

SSPC C12 SPRAY PAINTER CERTIFICATION
Prerequisites: 800 Hours of Spraying Experience
Training: Completion of TTP4 Sprayer Module
Exam: Written & Practical

CAS LEVEL 2 INTERIM COATING APPLICATION SPECIALIST LEVEL 2 INTERIM CERTIFICATION
Prerequisites: 2000 Hours of Blasting/Spraying Experience and 150 Hours of formal training; or 3000 Hours of Blasting/Spraying Experience and no formal training
Exam: Written & Practical *

CAS LEVEL 2 FULL COATING APPLICATION SPECIALIST LEVEL 2 FULL CERTIFICATION
Prerequisites: 3000 Hours of a documented Apprenticeship and 450 Hours of formal training; or 6000 Hours of Blasting/Spraying Experience and no formal training
Exam: Written & Practical *

* If C7 and C12 practical assessments have been passed, no practical exam required for CAS Level 2
** Includes experience in pre-surface prep, hand/power tool cleaning, brush/roll, paint mixing, and equipment/site clean up.
*** Must have 3rd party monitor the exam.
**** Exam must be graded by SSPC.

Train the painter
CAREER PATHWAY & CERTIFICATION
Individual Certification

The industrial painting trade has become a highly technical profession with the introduction of more sophisticated coatings and the need for qualified craftworkers is greater than ever.
SSPC: The Society for Protective Coatings/NACE International Joint SSPC Standard/NACE Standard Practice

SSPC-ACS 1/NACE No. 13
Industrial Coating and Lining Application Specialist Qualification and Certification

This SSPC: The Society for Protective Coatings/NACE International joint standard for qualifying and certifying industrial coating and lining application specialists represents a consensus of those individual members who have reviewed this document, its scope, and provisions. Its acceptance does not in any respect preclude anyone, whether he or she has adopted the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not any time in accordance with SSPC/NACE technical committee procedures. NACE and SSPC require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of initial publication and subsequently from the date of each reaffirmation or revision. The user is cautioned to obtain the latest edition. Purchasers of SSPC/NACE standards may receive current information on all standards and other SSPC/NACE joint publications by contacting the
SSPC ACS-1 / NACE 13 Standard

• Scope defines criteria for education, training, experience, knowledge, and skill sets required for the professional industrial painter
SSPC CAS Certification Program

• SSPC’s CAS Program offers a proven way for facility owners to find the most qualified craft workers for their coating and lining projects

• When you have a certified workforce you are ensuring that you have experienced and trained people who are aware of the current standards and practices and have a proven track record of success
SSPC CAS Certification Program

• CAS Interim Level 2 Program
• Need to allow time to establish training infrastructure
• CAS designed for current workforce with ramp up time to full compliance with the standard around 2020
SSPC CAS Program Pathway

- Exam – Written exam consisting of 50 questions
- Trainee – Limited experience, but some basic knowledge
SSPC CAS Program Pathway

- CAS Level 2 Interim status written exam includes a practical exam
- Blasting test to standard + application coating to the Product Data Sheet
CAS Written Exam

Closed book written exam of 100 questions for Interim status and 200 questions for Full status.

• Safety Questions
• Surface Preparation Questions
• Coating Application Questions
• Equipment Questions
CAS Hands-On Exam

Skill assessment exam consists of:

• Hands on dry abrasive nozzle blast cleaning exam, that includes identification of equipment and components, and set up

• Hands-on spray application exam, that includes identification of equipment and components, and set up
A minimum grade of 70% is required on the written exam and a minimum grade of 90% is required on the hands-on exam, in order for the candidate to be considered for CAS certification.
Applicator Program (C6)

Level: Intermediate
Certification Term: 5 years

C6 assesses the skills of craftworkers who have a minimum of 150 hours of hand and power tool cleaning & brush and roll coating application in an industrial or marine environment.
Abrasive Blasting Program (C7)

Level: Intermediate
Certification Term: 5 years

C7 assesses the skills of blasters who have a minimum of 800 hours of dry abrasive blast cleaning of steel in an industrial or marine environment.
Airless Spray Basics (C12)

Level: Intermediate
Certification Term: 5 years

C12 assesses the skills of sprayers who have a minimum of 800 hours applying protective coatings with airless spray in an industrial or marine environment.
Coating Applicator Specialist (CAS)

Level: Intermediate
Certification Term: 3 years

CAS is designed to certify individual craftworkers who have experience and training in all aspects of hands-on surface preparation and coating application of complex industrial and marine structures, according to the requirements of the SSPC Coating Application Specialist (CAS) Program.
Career Path Applicator

- SSPC Applicator Trainthepainter (TTP 1-5)
- SSPC CAS Level 1
- SSPC Applicator Program (C6)
- SSPC Abrasive Blasting Program (C7)
- SSPC Airless Spray Basics (C12)
- SSPC CAS Level 2 Interim
- SSPC CAS Level 2 Full
Summary

- Support, encourage, and train to best practices in both the day-to-day work procedures, as well as the health and safety of the employee and community on a global basis

- Preserve critical infrastructure assets around the world and reduce failures, associated risks and costs, including taxpayer burden of maintenance
Summary

- Trainthepainter is the program that will help us achieve your internal goals, and our external goals, together as a team.

- We will provide the contractor with the appropriate state of the art training to deliver to his craftworkers. This will raise the bar across the board.

- We will accomplish the strategic mission by providing cutting edge, industry respected training programs. Our goal is to develop a career lattice for the industrial blaster and painter. TTP is the foundation on which that effort is being built. We will provide contractors with a safer more efficient workforce, while the craftworker will in turn receive opportunities for advancement and greater career options.
Questions / Comments

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