

Bonded for Life: The Critical Role of FBE Knowledge in Pipelines

Association for Materials Protection and Performance



Who We Are

MISSION

Advancing materials performance to protect society, assets and the environment.

VISION

A world built and protected with safe, reliable, sustainable materials.

PROMISE

By extending the life of essential assets, conserving resources, and promoting environmental responsibility, AMPP enhances public welfare, community resilience, and the long-term viability of global infrastructure.



AMPP Around the World



As the global leaders in materials protection and performance, AMPP has an established presence at numerous locations around the world.



AMPP by the Numbers



35,000+ Members in
140 Countries



939 Corporate Members



54 Technical Committees
27 Standards Committees
500+ Standards Projects
2,000+ Standards Volunteers
4,300+ TCI Members



500+ Standards and Technical
Reports



1,248 Education Courses Held in 42
Countries



450 Certified Instructors



29,000+ In-person and Online
Students



80,217 Certifications

FUSION BONDED EPOXY

APPLICATION & INSPECTION



Dr. Jeff Rogozinski

Global Market Director – Functional Coatings
Sherwin Williams



Daniel Guzman

Director of Metallurgy and Technical Services
ITI International



PROBLEMS ADDRESSED



- Inconsistent interpretation of standards across the industry led to varied practices
- Limited emphasis on qualitative testing and acceptance criteria
- Insufficient awareness of the risks associated with improper FBE application, testing, and inspection
- Limited FBE-specific training opportunities previously existed
- No formal FBE certification options available before this program was designed



PROJECT DRIVERS



In 2024, industry experts turned to AMPP for help in bringing awareness, knowledge, and consistency to the workforce.



AMPP's solution was to develop training for coating applicators and inspectors, supported by an industry-recognized certification to validate skills and enhance credibility.



Training Outcome: Achieve a qualified workforce equipped with the knowledge and skills to apply and inspect FBE coatings in alignment with current industry standards



PROJECT CONTRIBUTORS



WOMBLE COMPANY, INC.



أرامكو السعودية
saudi aramco



DURA-BOND
INDUSTRIES



SHERWIN-WILLIAMS.



AMPP'S FBE PROGRAM

1



Education: Fusion Bonded Epoxy: Application & Inspection Course

2



Certification: Fusion Bonded Epoxy: Application & Inspection Certification Exam

COURSE OVERVIEW

Course Description

This course is designed to provide a foundational understanding of the FBE application process and proper inspection techniques of a pipe. Participants will explore relevant industry standards and gain hands-on experience with inspection methods conducted before, during, and after coating operations.

Primary Audience

- Coating facility workers applying, testing, and inspecting FBE
- Third-party inspectors monitoring and validating FBE operations

Secondary Audience

- Facility Managers and Leaders
- Auditors
- Facility QA/QC
- Asset Owners

CERTIFICATION OVERVIEW

Certification Description

The new FBE certification certifies professionals who possess fundamental knowledge in the application, inspection, evaluation, and testing of plant-applied single- and dual-layer external FBE coatings for pipelines. *As with the course, the credential aims to address workforce deficiencies that have an impact on life, property, and the environment.*

A comprehensive job role was conceived which informed the underlying fundamental knowledge base. Which is intended to have value not just for the job role defined but for the more extensive FBE workforce.

Certification Requirements

- **Highly recommended:** 1 year of related experience
- **Required:** Successful completion of the FBE course
- **Required:** Successful completion of the FBE exam (CBT)

Training at a Glance

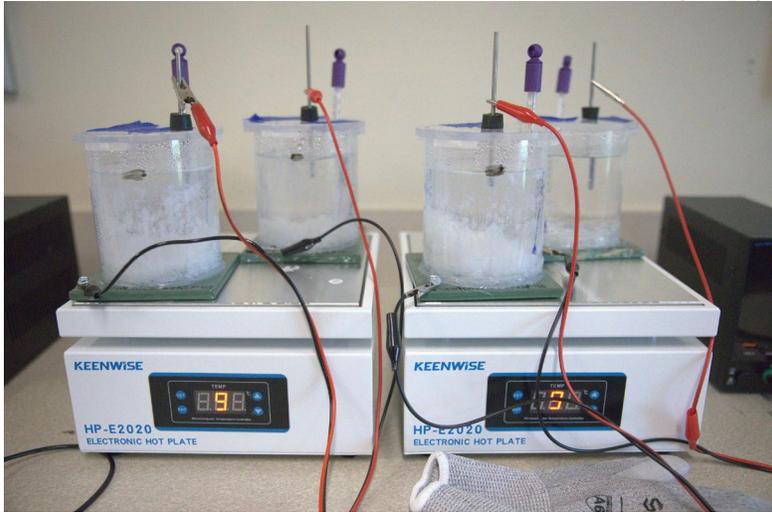
Introduction to Fusion Bonded Epoxy
Chemistry behind the powder coatings

Forms and Documentation
Coating Operations

Inspection Checkpoints and Measurements
Laboratory Testing

Transportation
Safety

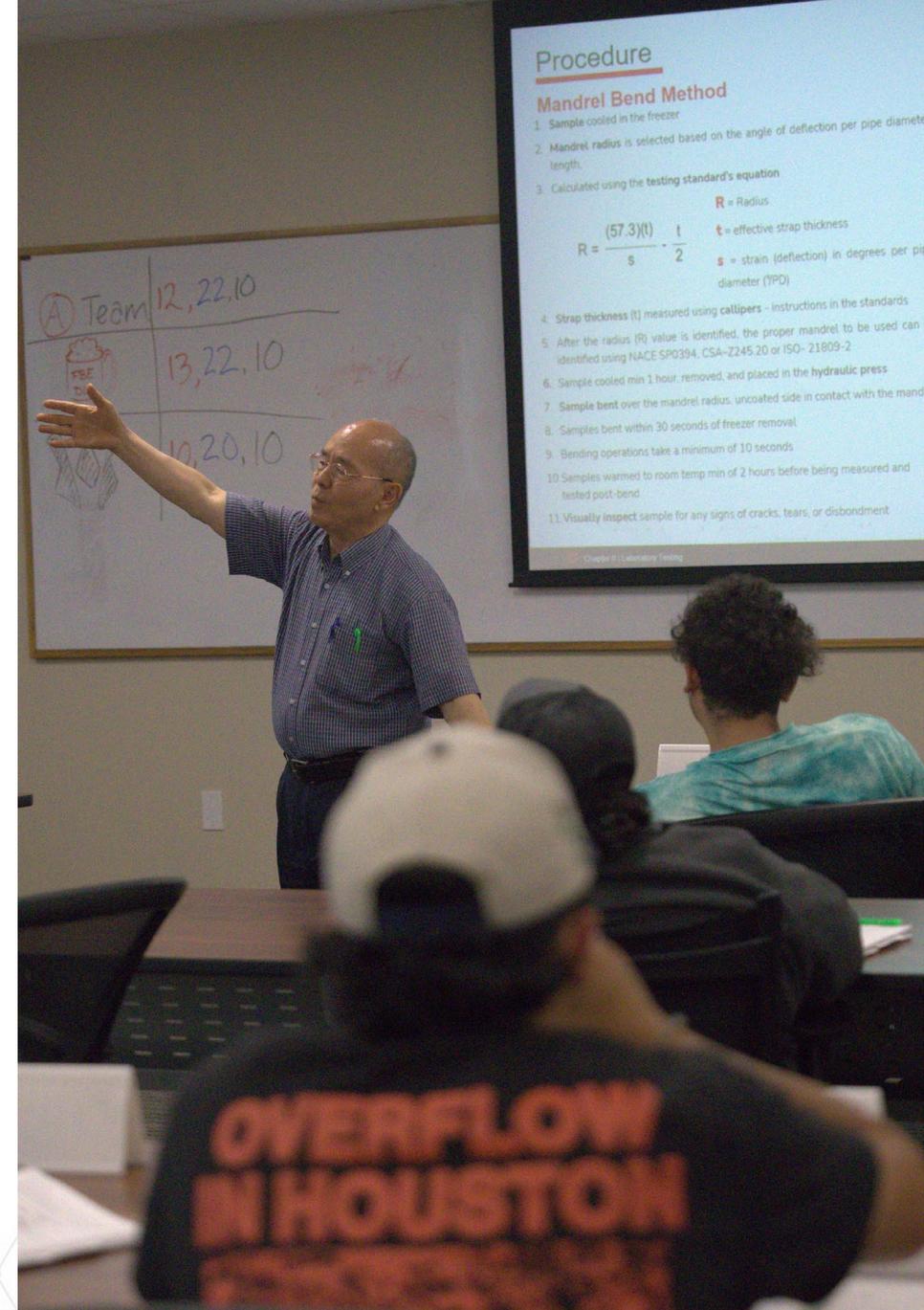
Training at a Glance



PROGRAM BENEFITS

Global Standard Consistency

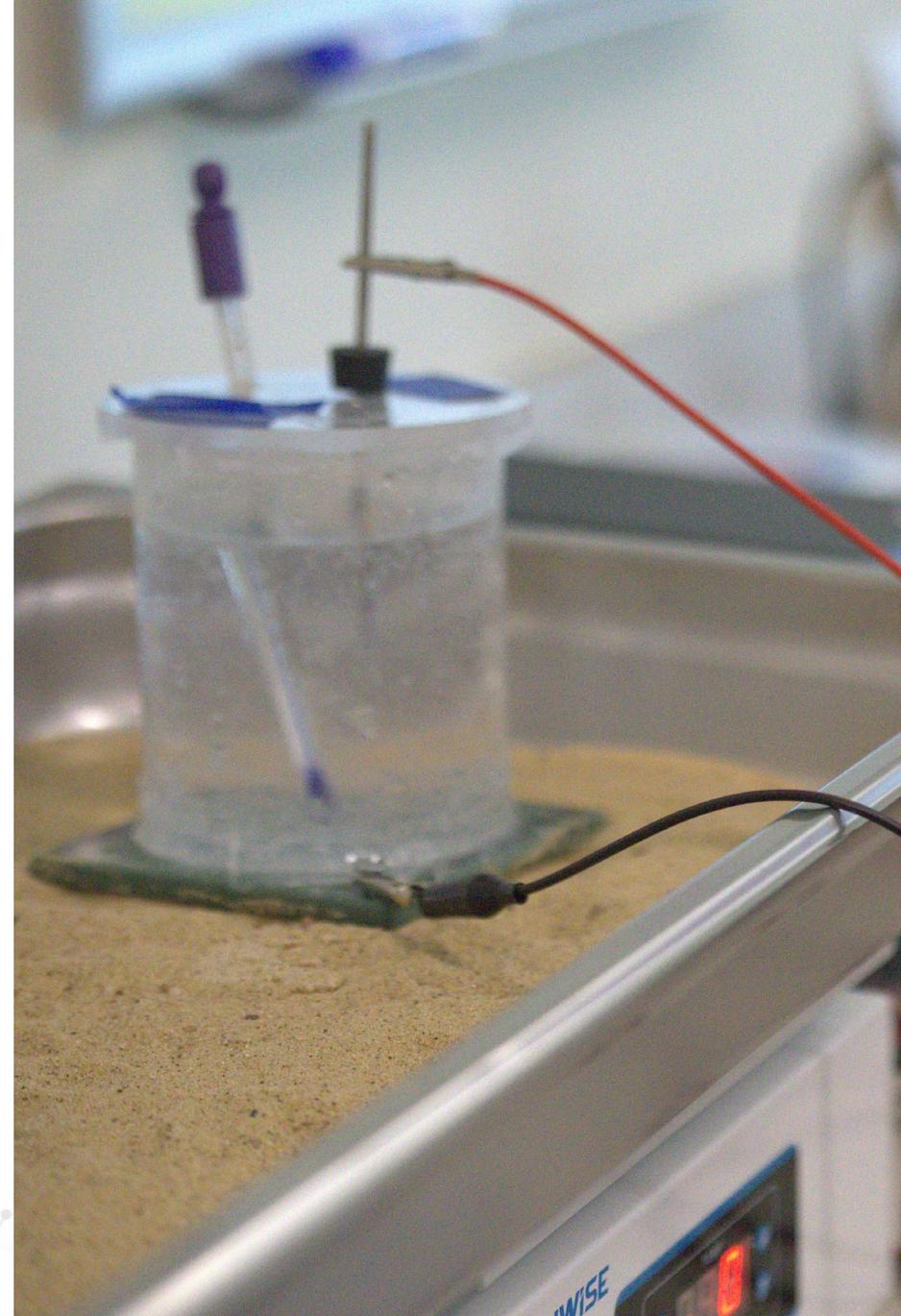
- Provides a clear understanding of industry standards (AMPP, ISO, CSA Z245.20, API) so that, regardless of project specifications, you have a fully trained and qualified workforce
- Bridges gaps in interpretation across companies and countries
- Promotes consistency across coating facilities worldwide
- Ensures that no matter which facility an asset owner selects, the application and inspection of FBE coatings will consistently meet the highest quality expectations



PROGRAM BENEFITS

Workforce Credibility & Asset Protection

- Validates knowledge and skills in FBE application and inspection
- Enhances workforce credibility across global markets
- Reduces rework and improves project quality assurance
- Helps mitigate corrosion-related risks through proper practices
- Minimizes costly failures and downtime
- Supports long-term asset protection and extended service life



PROGRAM BENEFITS: Industry Recognition

**AMPP's new FBE Training and Certification Program
was TRULY developed by Industry for Industry!**



UPCOMING COURSES

AMPP has many dates and locations to choose from, here are a few of the upcoming classes:

- **Date:** August 18-22, 2025 – Houston, TX
- **Date:** September 22-26, 2025 – Houston, TX
- **Date:** October 6-10, 2025 – Kuala Lumpur, MY
- **Date:** October 27-31, 2025 – Edmonton, AB, Canada

Not seeing a date that works within your schedule?

Visit the AMPP program page by scanning the QR code here to obtain a full list of dates and locations scheduled for 2025.

AMPP also offers a variety of training options, please visit the AMPP table in the back to learn more about group pricing and In-House Training options!





THANK YOU