D, CPO Recommended Facilities Corrosion Training Summary
(Attachment to the CPC Source Training Page)

Background: The Department of Defense (DoD) acquires, operates, and maintains a vast array of facilities such as airfields, wharves, buildings, utilities, and other structures. All of these assets are susceptible to corrosion. Corrosion costs are extensive and the failure to act only increases those costs. The best possible life-cycle decisions must be made by design and sustainment professionals, which requires preparation through education, training and experience to fulfill the challenge of successful corrosion prevention and control (CPC) despite resource limitations.

Engineers, Architects, and Sustainment Professionals must address a broad range of CPC challenges at each installation. Designing and specifying facility designs may include the selection of enhanced materials and coatings in severely corrosive environments and UFC 1-200-01 DoD Building Code. It is typical for many DoD facilities to be in service in excess of 50 years. Foundations, structural elements, utilities, piping, piers and wharves, pavements, heating ventilation and air conditioning, and other building components should be designed considering these service life realities and the challenges of follow-on maintenance.

Being prepared to address CPC challenges includes finding and completing appropriate training to master expertise in areas such as material selection, development of request for proposals, criteria selection, oversight of quality and commissioning actions, and the operation of facilities.

Discussion: There are many CPC education and training opportunities for DoD personnel. Sources include SSPC, NACE, and the Whole Building Design Guide (WBDG) on both the CPC Source Training Page and the DoD Courses Section under Continuing Education.

Table 1 seeks to simplify the task of determining which courses best fit the need of the individual and the organization. It is organized to assist in achieving appropriate knowledge levels to meet mission and employee CPC development requirements. The courses listed in Table 1 are ordered by "Track," "Knowledge," and "Proficiency Level." Explanations are provided at the end of Table 1 to further assist the user in determining where their individual skills might coincide with the recommended courses and topics.

These courses are placed in logical order by Track and Level but are not ordered by pre-requisites unless specifically stated by NACE, SSPC, or the WBDG. These courses are not being presented as a DoD requirement. It is a suggestion for organizations and individuals to better position themselves to manage career progression, professional registration continuing education, and mission execution needs to better address CPC related challenges affecting the facilities community and its workforce . The CPC Source Competencies web page provides additional insights into professional development.

Recommendation: It is recommended that DoD components and their employees utilize Table 1 to establish and pursue their CPC training needs. It is also recommended that Contractors review the content of the CPC Source Competencies web page as well as Table 1 for relevant information.

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 1 – CPC Foundation Knowledge**	*Entry-level knowledge development often focused on a specific interest or subject area. At this level, courses should assist in establishing learning needs at the next Intermediate & Advanced levels. Knowledge listed below is essential for Planners & Program Managers.*	*Consistent with the non-specific knowledge needs at this level, more advanced learning opportunities are provided below. Planners & program managers whose project workload includes specific CPC requirements should achieve this level of knowledge. In addition, some courses offer a practical, in-depth overview of a content area for specialists new to a particular industry.*	*Development of an advanced level of expertise with the course options listed below or from other sources.*

	DAU CLE 070 Corrosion & Polymeric Coatings (1CLP)
	
	SSPC Fireproofing Applicator (1.5 CEU's)
	
	NACE Basic Corrosion (3.6 CEU's)
	
	SSPC Marine Coatings (Basic) (3.8 CEU's)
	
	NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels)
	
	SSPC Ground Vehicle Corrosion/Protective Coatings (3.8 CEU's)
	
	DoD Corrosion Courses available on WBDG.org[2]:
	
	• DoD Corrosion Fundamentals (1 PDH)
	• DoD Coating Courses (1 PDH each module)
	  o Module 1 – Coating Fundamentals
	  o Module 2 – Coating Selection, Types, Performance, and the Environment (Under development)
	  o Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development)
		SSPC Concrete Coating Application Specialist (CCAS) (3.0 CEUs)
		
		SSPC Fundamentals of Protective Coatings[1] (3.8 CEU's)
		
		SSPC Natural & Accelerated Weathering of Coatings (Intermediate) (.8 CEU's)
		
		SSPC Selection of Coatings1 (.8 CEU's)
		
		DoD Corrosion Courses available on WBDG.org[2]:
		
		• DoD Utilities and Buried Structures (1 PDH)
		• DoD Cathodic Protection Basics (1 PDH)
		• DoD Waterfront & Coastal Structures (1 PDH)
		• CPC Facilities Life Cycle (Under development) (1 PDH)
			NACE CP Interference (4.8 CEU's)
			
			NACE Marine Coating Technology (3.1 CEU) (Prerequisite: Coating Inspector Program (CIP) Level I (4.9 CEU); CIP Level II (4.9 CEU) recommended)

Track 2 – Subject Matter Expert	*Targeted at the developmental Engineer/Architect who is learning how various aspects of the design process fit together with that individual's specialty area of expertise. Includes CPC coordination with disciplines, gathering analytic & design data, researching criteria, codes, WBDG, QA/QC/Cx, Life Cycle Cost Analysis, etc. The SME develops CPC knowledge to establish how it best fits into the design process to achieve life-cycle expectations. This level will identify relevant certifications required to move to the Intermediate level.*	*The SME develops professional competencies beyond the Basic Level and can apply intermediate level CPC knowledge assessment & problem solving along with making contributions to the development of the facility design. Includes identification of the CPC requirement, selection/editing of the appropriate criteria (e.g. UFC, UFGS, etc.) to achieve life-cycle expectations. Continued certifications will be expected to ensure enhanced support to the field in meeting mission requirements.*	*Consistent with employee development goals & requirements, this level might include the requirement to be a PE/RA, DAIWIA Level 3, and become an established "SME" in their discipline area. CPC knowledge should be commensurate with the level of expertise required for certification/registration. An SME provides field support, problem-solving recommendations, & collaborates with other disciplines to achieve required levels of CPC consistent with life-cycle expectations.*
	DAU CLE 070 Corrosion & Polymeric Coatings (1 CLP) NACE Coating Inspector Level 1 (4.9 CEU's) NACE Cathodic Protection (CP) Level 1 (4.5 CEU) SSPC Applicator Training Basics (required for CAS Certification) (3.8 CEU's) SSPC Coating Application Specialist Level 1 (0 CEU's) SSPC Concrete Coating Basics (1.5 CEU's) (required for Concrete Coating Inspector Certification (3.8 CEU's) NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels) **DoD Corrosion Courses available on WBDG.org[2]:** • DoD Corrosion Fundamentals (1 PDH) • DoD Coating Courses (1 PDH each module)	NACE Coating Inspector Level 2 (4.9 CEU's); NACE Cathodic Protection (CP) Level 2 (4.5 CEU) & 3 (5.1 CEU) SSPC Abrasive Blasting Program (C7) – (Intermediate level) (.75 CEU's) SSPC Coating Application Specialist Level 2 (Interim & Full Status) (CEU's NA) SSPC Plural Component Application for Polyureas/High Solid Coatings (1.5 CEU's) SSPC Spray Application Certification (2 options) (.6, .8 CEU's) SSPC Thermal Spray Inspector Training (Intermediate) (.8 CEU's) SSPC Water Jetting Program (Intermediate) (.6 CEU's) SSPC Surface Prep & Paint Application for Power Tool Cleaning Operators & Brush/Roll Paint Applicators Certification (Intermediate) (.7 CEU's)	NACE Coating Inspector Level Peer Review-Exam Only (CEU's NA) NACE Marine Coatings Technology (3.1 CEU's); NACE Cathodic Protection (CP) Level 4 (5.3 CEU's) NACE Corrosion Specialist Certification (CEUs NA-Special Certification) SSPC Protective Coatings Inspector Level 1, 2, 3 (3.8, 2.3, 2.3 CEU's) SSPC Master Coatings Inspector Program (CEU's NA; Special Certification) SSPC Protective Coatings Specialist (CEU's NA) SSPC Concrete Coating Inspector Program (Multiple paths) (3.8 CEU's but varies) SSPC Supplement: Determining Level of Moisture in Concrete (.8 CEU's)

	○ Module 1 – Coating Fundamentals ○ Module 2 – Coating Selection, Types, Performance, and the Environment (Under development) ○ Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development) • DoD Utilities and Buried Structures (1 PDH)	SSPC Marine Plural Component Program (Intermediate) (.8 CEU's) SSPC Fireproofing Inspector eCourse (.8 CEU's) SSPC Insulation Inspector eCourse (.8 CEU's) **DoD Corrosion Courses available on the WBDG. org[2]:** • CPC Facilities Life Cycle (Under development) (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH) • DoD Cathodic Protection Basics (1 PDH)	SSPC Plural Component Application for Polyureas/High Solids Coatings Cert Program (1.5 CEU's) SSPC Bridge Coating Inspector Program (1&2) (3.7 CEU's)

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 3 – Inspector, Construction Surveillance	*Entry-level knowledge development of CPC skills for construction QA/QC/Cx oversight, safety & technical support. Extensive training required to develop how CPC relates to building systems to include design geometrics. Beginner knowledge of coating application, cathodic protection, design geometrics and surface preparation is required.*	*Works more independently on projects & issues of greater scope & complexity. Builds upon knowledge gained at the basic level. Develops ability to interpret plans & specifications, RFP, & construction cost issues. Knowledge of Building Systems & associated CPC vulnerabilities & best practices. Must translate standard construction practice & evaluate and perform QA on various contract delivery methods to ensure that CPC is addressed in the completed design & project.*	*Expected to function at the journeyman level & to fully function independently on assigned projects leveraging specialized expertise gained through years of experience & knowledge development. CPC knowledge & skills application for the advanced level employee is key to successful provision of QA/QC/Cx & technical oversight of construction projects. Supervision & management oversight, as well as various CPC-related certifications, may be required at this level.*
	DAU CLE 070 Corrosion & Polymeric Coatings (1 CLP) NACE Basic Corrosion (3.6 CEU) SSPC Marine Coatings (Basic) (3.8 CEU's) DoD Corrosion Fundamentals - WBDG.org (1 PDH) NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels) **DoD Corrosion Courses available on WBDG. org[2]:** • DoD Corrosion Fundamentals (1 PDH) • DoD Coating Courses (1 PDH each module) o Module 1 – Coating Fundamentals o Module 2 – Coating Selection, Types, Performance, and the Environment (Under development) o Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development)	SSPC Fireproofing Inspector eCourse (.8 CEU's) SSPC: Fundamentals of Protective Coatings[1] (3.8 CEU's) SSPC Inspecting Containment (Intermediate) (.7 CEU's) SSPC Lead Paint Removal (Intermediate) (3.0 CEU's) SSPC Lead Paint Worker Safety[1] (.8 CEU's) SSPC Quality Control Supervisor (Intermediate) (1.5 CEU's) SSPC Thermal Spray Inspector Training (Intermediate) (.8 CEU's) SSPC Industrial Coating Safety Management (2.4 CEU's)[1] NACE: Coatings in Conjunction with Cathodic Protection (3.8 CEU's)	SSPC Master Coatings Inspector Program (CEU's NA; Special Certification) SSPC Concrete Coating Inspector Program (3.8 CEU's but varies) SSPC Inspection Planning & Documentation (1.4 CEU's) SSPC Planning/Specifying Industrial Coatings Projects (Advanced) (3.9 CEU's) SSPC Bridge Coating Inspector Program-Levels 1 and 2 (Advanced) (3.7 CEU's) SSPC Bridge Maintenance-Conducting Coating Assessments (Advanced) (3.7 CEU's) NACE CP Interference (4.8 CEU's) (Prerequisite: CP 3 (5.1 CEU's) Certification recommended) NACE Marine Coating Technology (Prerequisite: CIP Level I (4.9 CEU's); CIP Level II (4.9 CEU's) (Recommended)

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
		NACE Offshore Corrosion Assessment Training (3.8 CEU's) NACE Inline Inspection (part of Pipeline Corrosion Integrity Management Program) (3.4 CEU's) NACE Internal Corrosion for Pipelines-Basic1 (3.8 CEU's) NACE Corrosion Prevention and Control Management e-Course SSPC Insulation Inspector eCourse (.8 CEU's) **DoD Corrosion Courses available on WBDG.org[2]:** • CPC Facilities Life Cycle (Under development) (1 PDH) • DoD Cathodic Protection Basics (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH)	NACE Internal Corrosion for Pipelines-Advanced (3.4 CEU's) NACE Direct Assessment (of Pipeline Integrity) (3.4 CEU's) NACE Senior Corrosion Technologist

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 4 – Designer (Architect, Engineer, Other Design Professional) and Project/Design Manager	*Developmental Designer learning how various aspects of the design process comes together. Includes coordination with other disciplines, gathering design data, researching criteria, codes, WBDG & other sources of information from the WBDG NDBM. Develops CPC knowledge to establish how best to fit into the design process for life-cycle expectations.*	*Can apply intermediate-level CPC knowledge to the development of the facility design to include identification of the CPC requirement, selection/editing of the appropriate criteria (e.g. UFC, UFGS, etc.) to achieve life-cycle expectations.*	*Consistent with employee development goals & requirements, this level might include the requirement to be a PE/RA, DAIWIA Level 3, and become an "expert" in their discipline area. CPC knowledge should be commensurate with that level of expertise & is required to collaborate project design elements with other disciplines to accurately achieve required levels of CPC consistent with life-cycle expectations.*
	DAU CLE 070 Corrosion & Polymeric Coatings (1 CLP) NACE Basic Corrosion (3.6 CEU's) NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels) **DoD Corrosion Courses available on WBDG. org[2]:** • DoD Corrosion Fundamentals (1 PDH) • DoD Coating Courses (1 PDH/each module) o Module 1 – Coating Fundamentals o Module 2 – Coating Selection, Types, Performance, and the Environment (Under development) o Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development)	SSPC Lead Paint Removal (Intermediate) (3.0 CEU's) DoD Utilities and Buried Structures - WBDG.org (1 PDH) SSPC Lead Paint Worker Safety[1] (.8 CEU's) NACE: Designing for Corrosion Control[2] (3.6 CEU's) (Prerequisite: NACE Basic Corrosion (3.6 CEU's) recommended) NACE: Coatings in Conjunction w/ Cathodic Protection (3.8 CEU's) SSPC: Fundamentals of Protective Coatings[1] (3.8 CEU's) SSPC Natural & Accelerated Weathering of Coatings (Intermediate) (.8 CEU's) SSPC Basics of Nonferrous Surface Preparation[1] (.6 CEU's)	SSPC: Planning/Specifying Industrial Coatings Projects (Advanced) (3.9 CEU's) NACE Marine Coating Technology (3.1 CEU's) (Prerequisite: CIP Level I (4.9 CEU's); CIP Level II recommended (4.9 CEU's) NACE Direct Assessment (of Pipeline Integrity) (3.4 CEU's) NACE Senior Corrosion Technologist

		SSPC Basics of Steel Surface Preparation[1] (.8 CEU's) SSPC Concrete Coating Application Specialist (CCAS) (3.0 CEUs) SSPC Planning and Specifying Industrial Coatings Projects e-Course (Basic)[1] (3.8 CEU's) SSPC Evaluating Common Coating Contract Clauses (.75 CEU's) SSPC Basics of Concrete Surface Preparation (.8 CEU's) NACE Pipeline Corrosion Assessment Field Techniques (3.4 CEU's) NACE Internal Corrosion for Pipelines – Basic[1] (3.8 CEU's) NACE Corrosion Prevention and Control Management e-Course **DoD Corrosion Courses available on WBDG.org[2]:** • DoD Utilities and Buried Structures (1 PDH) • DoD Cathodic Protection Basics (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH) • CPC Facilities Life Cycle (Under development) (1 PDH)	

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 5 – Sustainment (Engineer, Architect Manager)	*Sustainment Engineer, Architect Manager learning how various aspects of the facilities management process come together. Includes developing an understanding of the building trades and engineering disciplines. Researches job orders, maintenance processes, CPC techniques, & scheduling of projects; gathers maintenance & design data, researches criteria, codes, WBDG & other sources of sustainment information. Develops CPC maintenance knowledge for life-cycle expectations.*	*Has developed professional competencies at the Basic Level; can apply intermediate level CPC knowledge to the sustainment & maintenance management of the facility to include identification of CPC deficiencies & requirement & development of solutions. Coordinates contract requirements with acquisition professionals to include recommending criteria (e.g. UFC, UFGS, etc.) & industry best practices for life-cycle expectations.*	*Consistent with employee development goals & requirements, this level might include the requirement to be a PE/RA, DAIWIA Level 3, & become an "expert" in their discipline area. CPC knowledge should be commensurate with that level of expertise & is required to collaborate sustainment actions with engineering & architectural disciplines, acquisition professionals & construction & project oversight to accurately achieve required levels of CPC consistent with life-cycle expectations.*

	DAU CLE 070 Corrosion & Polymeric Coatings (1 CLP)
	
	NACE Basic Corrosion (3.6 CEU's)
	
	SSPC Marine Coatings (Basic) (3.1 CEU's)
	
	SSPC Basics of Steel Surface Preparation (.8 CEU's)
	
	SSPC Basics of Nonferrous Surface (.6 CEU's) Preparation
	
	SSPC Ground Vehicle Corrosion/Protective Coatings (3.8 CEU's)
	
	DoD Corrosion Courses available on WBDG. org[2]:
	
	• DoD Corrosion Fundamentals (1 PDH)
	• DoD Coating Courses (1 PDH/each module)
	  o Module 1 – Coating Fundamentals
	  o Module 2 – Coating Selection, Types, Performance, and the Environment (Under development)
		SSPC: Fundamentals of Protective Coatings (3.8 CEU's)
		
		SSPC Natural & Accelerated Weathering of Coatings (Intermediate) (.8 CEU's)
		
		SSPC Project Mgmt. for Industrial Painting Contractor (1.5 CEU's)
		
		SSPC Selection of Coatings (.8 CEU's)
		
		SSPC Developing an Effective Coating Specification (2.4 CEU's)
		
		SSPC Evaluating Common Coating Contract Clauses (.75 CEU's)
		
		SSPC Industrial Coating Safety Management (2.4 CEU's)[1]
		
		SSPC Planning and Specifying Industrial Coatings Projects e-Course (3.9 CEU's)
		
		SSPC Inspecting Containment (Intermediate) (.7 CEU's)
			SSPC Bridge Maintenance-Conducting Coating Assessments (Advanced) (1.5 CEU's)
			
			SSPC: Planning/Specifying Industrial Coatings Projects (Advanced) (3.9 CEU's)
			
			SSPC Plural Component Application for Polyureas/High Solids Coatings (1.5 CEU's)
			
			NACE CP Interference (4.8 CEU's) (Prerequisite: CP 3 Certification recommended (5.1 CEU's))
			
			NACE Pipeline Corrosion Integrity Management (3.4 CEU's)
			
			NACE Marine Coating Technology (3.1 CEU's) (Prerequisite: CIP Level I (4.9 CEU's); CIP Level II (4.9 CEU's) recommended)
			
			NACE Direct Assessment (3.4 CEU's) (of Pipeline Integrity)
			
			NACE Senior Corrosion Technologist

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
	○ Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development)	SSPC Lead Paint Removal (Intermediate) (3.0 CEU's) SSPC Lead Paint Worker Safety (.8 CEU's) SSPC Quality Control Supervisor (Intermediate) (1.5 CEU's) SSPC Inspection Planning & Documentation (1.4 CEU's) NACE Coatings in Conjunction with Cathodic Protection (3.8 CEU's) NACE Inline Inspection (3.4 CEU's) (part of Pipeline Corrosion Integrity Management Program) NACE Intro to Coating Inspection (ICI) (Online) (4 PDH's) NACE Corrosion Prevention and Control Management e-Course2 **DoD Corrosion Courses available on WBDG.org[2]:** • DoD Utilities and Buried Structures (1 PDH) • DoD Cathodic Protection Basics (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH) • CPC Facilities Life Cycle (Under development) (1 PDH)	

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 6 – Sustainment Field Professional (Tradesman, Planner, Estimator)	*Entry level/basic knowledge development of CPC skills. Extensive training is required to develop how CPC relates to building systems to include design geometrics. Specific beginner knowledge of coating application, cathodic protection, design geometrics and surface preparation is required. Researches job orders, maintenance processes, CPC techniques, & scheduling of projects, researches criteria, codes, WBDG and other sources of CPC sustainment information. Develops CPC knowledge to conduct maintenance actions for life-cycle expectations.*	*Works more independently on projects & issues of greater scope & complexity. Builds upon knowledge gained at the basic level. Can apply intermediate-level CPC knowledge to the sustainment & maintenance management of the facility, to include identification of the CPC deficiencies & requirement & development of solutions. Develop ability to interpret plans & specifications, RFP, time requirements, construction cost issues & construction trades interaction. Has knowledge of Building Systems (e.g. waterfront structures, building envelopes, utilities & fore protection, etc.) & the appropriate CPC interfaces.*	*Expected to function at the journeyman level & to fully function in an independent manner on assigned projects, leveraging special expertise gained through years of experience & knowledge development. CPC knowledge & skills application for the advanced level employee is key to the successful creation of CPC solutions, project planning & estimating to ensure the delivery of quality, timely and accurate project work. Supervision & management oversight as well as various CPC related certifications maybe required at this level.*
	DAU CLE 070 Corrosion & Polymeric Coatings (1 CLP) NACE Basic Corrosion (3.6 CEU's) SSPC Marine Coatings (Basic) (3.8 CEU's) NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels) SSPC Fireproofing Applicator (1.5 CEU's) SSPC Ground Vehicle Corrosion/Protective Coatings (3.8 CEU's) **DoD Corrosion Courses available on WBDG. org[2]:** • DoD Corrosion Fundamentals (1 PDH) • DoD Coating Courses (1 PDH/each module) o Module 1 – Coating Fundamentals	SSPC Basics of Concrete Surface Preparation[1] (.8 CEU's) SSPC Basics of Estimating Industrial Projects[1] (.75 CEU's) SSPC Basics of Nonferrous Surface Preparation[1] (.6 CEU's) SSPC Basics of Steel Surface Preparation[1] (.8 CEU's) SSPC Fireproofing Inspector eCourse (.8 CEU's) SSPC Concrete Coating Application Specialist (CCAS) (3.0 CEUs) SSPC Fundamentals of Protective Coatings[1] (3.8 CEU's) SSPC Thermal Spray Training[1] (.8 CEU's) SSPC Thermal Spray Inspector Training (Intermediate) (.8 CEU's)	SSPC Master Coatings Inspector Program (CEU's NA; Special Certification) SSPC Applicator Train-the-Trainer Program (ATT) (.6 CEU's) NACE PCS (Protective Coatings) 2 – Advanced[2] (2.3 CEU's) NACE CP Interference (4.8 CEU's) (Prerequisite: CP 3 Certification (5.1 CEU's) - recommended) NACE Internal Corrosion for Pipelines – Advanced (3.4 CEU's) NACE Direct Assessment[2] (of Pipeline Integrity) (3.4 CEU's) NACE Senior Corrosion Technologist

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
	○ Module 2 – Coating Selection, Types, Performance, and the Environment (Under development) ○ Module 3 - Surface Preparation, Application of Coatings, and Coating Degradation and Failures (Under development)	SSPC Surface Prep & Paint Application for Power Tool Cleaning Operators & Brush/Roll Paint Applicators Certification (Intermediate) (.7 CEU's) SSPC Project Management for Industrial Painting Contractor[1] (1.5 CEU's) SSPC Industrial Coating and Safety Management (2.4 CEU's)[1] NACE PCS (Protective Coatings) 1 – Basic Principles[1] (2.3 CEU's) NACE Designing for Corrosion Control (3.6 CEU's) NACE Coatings in Conjunction with Cathodic Protection (3.8 CEU's) NACE Pipeline Corrosion Assessment Field Techniques (3.4 CEU's) NACE Offshore Corrosion Assessment Training (3.8 CEU's) NACE Inline Inspection[2] (part of Pipeline Corrosion Integrity Management Program) (3.4 CEU's) NACE Internal Corrosion for Pipelines – Basic[1] (3.8 CEU's) NACE Corrosion Prevention and Control Management e-Course SSPC Natural & Accelerated Weathering of Coatings (Intermediate) (.8 CEU's)	

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
		DoD Corrosion Courses available on WBDG.org[2]: • DoD Utilities and Buried Structures (1 PDH) • DoD Cathodic Protection Basics (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH) • CPC Facilities Life Cycle (Under development) (1 PDH)	

*Table 1 Facilities (Design, Construction, Repair, Sustainment) Course Recommendations**

Tracks	*Level: Basic or General Knowledge*	*Level: Intermediate*	*Level: Advanced*
Track 7 – Acquisition Professional	*Foundational understanding & knowledge of how & why CPC fits into acquisition, RFP & project specifications; basic knowledge of contract divisions, UFC, UFGS, WBDG, & their CPC applicability.*	*Ability to apply intermediate level CPC knowledge into acquisition documents to include editing of UFGS & selection & leveraging of criteria to achieve desired levels of CPC for the life cycle.*	*In-depth knowledge level of CPC to include critical thinking, problem solving, & ability to apply CPC requirements to various scenarios to ensure strong performance-based contract results in the completed facility to achieve life-cycle expectations.*
	NACE Basic Corrosion (3.6 CEU's) SSPC: Evaluating Common Coating Contract Clauses (Basic) (.75 CEU's) NACE Industrial Coatings Application e-Course (4 Modules with differing PDH levels) **DoD Corrosion Courses available on WBDG. org[2]:** • DoD Corrosion Fundamentals (1 PDH) • DoD Coating Fundamentals (1PDH)	SSPC: Planning/Specifying Industrial Coatings Projects (Basic)[1] (3.8 CEU's) SSPC: Develop an Effective Coating Specification (Intermediate) (2.4 CEU's) SSPC Lead Paint Removal (Intermediate) (3.0 CEU's) SSPC Lead Paint Worker Safety[1] (.8 CEU's) NACE: Designing for Corrosion Control (3.6 CEU's) (Prerequisite: NACE Basic Corrosion (3.6 CEU's) recommended) NACE Corrosion Prevention and Control Management e-Course **DoD Corrosion Courses available on WBDG.org[2]:** • CPC Facilities Life Cycle (Under development) (1 PDH) • DoD Waterfront & Coastal Structures (1 PDH) • DoD Cathodic Protection Basics (1 PDH)	SSPC: Planning/Specifying Industrial Coatings Projects (Advanced) (3.9 CEU's)

*For a complete synopsis of each course listed in the Table, please consult the associated WBDG.org, NACE.org, and SSPC.org websites.
**Applicable to all, especially if the other Tracks are not a fit.
[1] Although these course offerings are labeled as 'Basic' in their titles or course descriptions, we regard them as more functional and more appropriately targeted to a particular industry or narrow professional specialization, so we have included them in the 'Intermediate' level category.
[2] WBDG Continuing Education (Login account required and is available to government, military, industry, and contractors) (Note: For CPC Coursework select "DOD" under the "Sponsor" search, and, there is no charge for the WBDG.org courses.

Column and Row Headings Defined:

1. Track 1: CPC Foundation Knowledge
    a. Fundamental knowledge and proficiency level based upon job requirements. This Track provides an understanding of basic principles and procedures in the various areas of corrosion, prevention and control.
2. Track 2: Subject Matter Expert
    a. This Track provides opportunities for the facilities professional who needs to have an established certification level in the specific subject matter area such as Coatings Inspection, Cathodic Protection, etc., to accomplish his or her job.
3. Track 3: Inspector, Construction Surveillance
    a. This track provides government construction representatives with essential skills in CPC to be able to perform effective Quality Assurance. Additionally, the contractor's Construction Quality Control person must be proficient in these areas as well. QA, CQC, and Commissioning plans are dependent upon this knowledge.
4. Track 4: Designer (Architect, Engineer, Other Design Professional) and Project/Design Manager
    a. This track provides the design professional insights into the appropriate CPC technical , knowledge in order to establish requirements and articulate that into the Plans and Specifications.
    b. Translating the knowledge gained from this track is critical to achieving both the desired life cycle and quality in the finished project.
5. Track 5: Sustainment (Engineer, Manager)
    a. The Sustainment Engineer/Manager is faced with the daily task of CPC problem identification and solving.
    b. This Track provides insights into the types of resources that are available in order for the Sustainment Engineer/Manager to be more successful in identifying and resolving CPC deficiencies, as well as implementing improvements.
    c. If the Sustainment Engineer/Manager is a government employee, this level of knowledge will provide insights into managing CPC for both the government and contract maintainers.
6. Track 6: Sustainment Field Professional (Tradesman, Planner, Estimator)
    a. The Sustainment Field Professional is faced with the daily task of CPC problem identification, solution development, and, in many cases, actually accomplishing corrective actions.
    b. This Track provides insights into what types of specific knowledge are available to assist in making the Sustainment Field Professional more successful.
    c. If the Sustainment Field Professional is a government employee, this level of knowledge will provide insights into CPC for both government and contract maintainers.
7. Track 7: Acquisition Professional
    a. This Track provides the Acquisition Professional the knowledge and skills needed to manage CPC contract requirements. This includes identification of the appropriate UFC (Unified Facilities Criteria) and UFGS (Unified Facilities Guide Specifications) as well as in the editing of the UFGS's that are selected.
    b. This knowledge and awareness will assist in ensuring that appropriate levels of quality and deliverables are identified in the contract. .

Levels Defined: These levels are relative to the individual and the requirement. The intent is to distribute the complexity and detail of the courses in such a way as to show a progression from basic knowledge of CPC to a more advanced functional level of proficiency. Professional Licensing (PE/RA etc.) will draw upon the courses shown in the three levels to satisfy local, state, and government requirements to obtain and sustain registration requirements.

1. Basic or General
2. Intermediate
3. Advanced

Training Opportunities Contacts

- Please visit SSPC course opportunities for more information and contact Jennifer Merck at merck@sspc.org or 412-281-2331, extension 2221.
- Please visit NACE course opportunities and contact Shawna Jones Shawna.Jones@nace.org or call 281-228-6225.

WBDG Training Resources

- WBDG DoD Training
- WBDG CPC Source Competencies
- [2]WBDG Continuing Education (Login account required and is available to government, military, industry, and contractors) Note: For CPC Coursework select "DOD" under the "Sponsor" search, and, there is no charge for the WBDG.org courses.