

Agenda – 2 Day

STI/SPFA Cathodic Protection Tester Certification Course

Day 1

1	INTRODUCTION	8:00 AM
	Introduce speakers, review class book, review agenda	
	Exam pass/fail - 75%	
2	FUNDAMENTALS OF CORROSION	
	Definition of corrosion terms	
	Corrosion examples	
	Galvanic and electrolytic corrosion	
	Galvanic series of metals	
	Equipment: Copper/copper sulphate reference cell, voltmeters, resistivity meter, test leads...	
	Equipment calibration	
3	LAB A – Metal to Soil potentials	
4	CATHODIC PROTECTION TESTING	
	Reference cell placement	
	Making electrical connection to tanks and other equipments	
	Structure to soil potential readings	
5	SACRIFICIAL CATHODIC PROTECTION SYSTEMS	
	Fundamental corrosion cell	
	Sti-P3 system	
6	LAB B – Sacrificial Anode CP	
7	LOCAL AND REMOTE READINGS	
	What do they mean?	
	Why are they important?	
	Minimum number of readings per structure	
	Stainless Steel	
8	CONTINUITY/ISOLATION TESTING	
	Fixed Cell Moving Ground	
9	LAB C - Fixed Cell Moving Ground Continuity Test	
10	CRITERIA	
	-850 mV on Criteria	

LUNCH**12:30 Noon****Afternoon**

11	MEET AT GALVANIC SYSTEM SITE	1:30 PM
	Safety Discussion	
	STI-P3 Site Test	
	Fixed Cell Moving Ground Continuity/Isolation Test	
	Soil Resistivity Test	
12	RECONVENE AT CLASSROOM	2:30 PM
13	REVIEW OF WHAT WE LEARNED AT SITE	
14	IMPRESSED CURRENT CP	
	Rectifier Schematic	
	Comparison Design vs. Galvanic Anode	
	Anode Materials	
15	TESTING IMPRESSED CURRENT SYSTEMS	
	Measuring Rectifier Outputs	
	Shunts	
16	Lab D – Rectifier Outputs	
17	IMPRESSED CURRENT CATHODIC PROTECTION TESTING	
	Instant off readings	
	Reference cell placement	
	Number of readings	
18	LAB E – Impressed Current CP Testing	

Day 2

1	IMPRESSED CURRENT CP CRITERIA -850 mV polarization 100 mV Polarization Criteria, Criteria Graph	8:00 AM
2	CONTINUITY TESTING Point to Point Continuity Method	
3	LAB F – Continuity Testing Point to Point Contact	
4	ADDITIONAL FIELD TESTS Soil Resistivity Current Requirement Test	
5	STI R972-01 SUPPLEMENTAL ANODES	
6	PAPERWORK & STATE CP FORMS	
7	MEET AT IMPRESSED CURRENT SITE Safety Discussion Measure Rectifier Functionality Test Impressed Current System Point to Point Continuity/Isolation Test	10:00 AM
8	RECONVENE AT CLASSROOM	11:00 AM
9	REVIEW OF WHAT WE LEARNED AT SITE	
10	TOTAL REVIEW OF BOTH DAYS	

Afternoon

11	CATHODIC PROTECTION TESTER EXAM 3 part exam, must pass each section to get certified, minimum 75% on written exam	12:30 PM
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NOTE: All exams must be completed and turned in by no later than 3:30 PM