CORROSION - CERTIFIED COMPOSITES TECHNICIAN - (CCT - C)

TOPIC	Resource	Body of Knowledge %
	CCT Basic Composites	5%
Module 1 General Composites Knowledge	Manual	
History and understanding of the composites industry		
Understand why composites are unique		
Basic knowledge of the advantages of composites		
Module 2 Composites Manufacturing Processes	CCT Basic Composites Manual	10%
Open Molding processes		
Closed Molding processes		
Manufacturing Process recognition		
Module 3 Composite Materials	CCT Basic Composites Manual/CCT Corrosion Manual	15%
recognize the basic thermoset resins used in composites		
manufacturing		
basic fundamentals of thermoset resin cure		
identify and define resins used in corrosion-resistant products		
reinforcements and understand their relationship in a composite		
part		
understand the importance of sandwich construction in composites manufacturing		
identify the fillers and additives used in resins		
Module 4 Gel Coat Application	CCT Corrosion Manual	15%
Concepts and technics critical to the application of gelcoat		
Basic understanding of Gelcoat Chemistry		
Procedures for handling of gel coats		
Familiarity with the various types of gel coat application equipment		
Module 5 Molding Laminating Techniques	CCT Corrosion Manual	15%
Purpose of the corrosion barrier and the structural laminate layer		
Methods used when processing synthetic veils		
Identify the factors to consider when applying structural portion of		
laminate		
Filament winding, technics and processes commonly used for		
corrosion applications		

Cuidalinas for processing care materials within specifications for		
Guidelines for processing core materials within specifications for		
corrosion applications		
Common problem identification when using resins.		
Understand the process when joining parts during secondary		
bonding. Meeting the requirements for corrosion applications		
Module 6 Controlled Spraying	CCT Corrosion Manual	15%
Controlled spraying application process.		
Terminology and equipment recognition for spray application and		
its various options		
Comprehend and apply "Controlled Spraying Performance		
Evaluation"		
Know the major benefits for controlled spraying.		
Module 7 Composites Plant Safety	CCT Corrosion Manual	15%
Identify and select plural component application equipment used in		
the FRP industry		
learn the importance of clean, dry compressed air in a shop		
Understand and implement general equipment operating		
procedures		
Show knowledge of the importance of Plural Component Equipment		
Calibration		
Module 8 Corrosion Quality Assurance	CCT Corrosion Manual	10%
Develop a basic knowledge and ability to implement safety practices		
as related to the composites industry		
Know the steps involved in building a quality system		
Basic principles in Procedural Process Control		
Factors to ensuring quality specific to the corrosion industry and		
applicable standards		
Principles to assuring quality in raw materials		
Throughes to assuming quanty in raw materials		