



OPEN MOLDING - CERTIFIED COMPOSITES TECHNICIAN - (CCT - OM)

TOPIC	Resource	Body of Knowledge %
Module 1 Basic Composites Knowledge /Manufacturing materials and process/ Overview of Open Molding Lamination	CCT Basic Composites Manual/ Open Molding Study Guide	20%
Production Processes		
Matrix and Materials		
Industry introduction		
Open Molding Process Principles and Tooling		
Basic Functions of Composites Laminates		
Filament Winding, Pultrusion and Continuous Lamination		
Application Methodologies		
Safety Overview		
Module 2 Gel Coat Application Technology	CCT Basic Composites Manual/ Open Molding Study Guide	20%
Gel coat materials, function, chemistry		
Gel Coat Application		
Gel Coat storage and Handling		
Raw material quality assurance		
Gel Coat Spray Gun selection and setup		
Spraying Preparation - Pre Gel Coat Checklist		
Gel Coat Spraying Methodology		
Gel Coat Application Safety		
Module 3 Laminating Application Technology	CCT Basic Composites Manual/ Open Molding Study Guide	30%
Open Molding Laminate Application		
Fiber Reinforcements and Placement		
Laminating Tools of the Trade		
Hand Lay-up Laminating Technics		
Spray up Lamination		
Core and part bonding procedures		
Laminating quality control for Open Molding		

Field Fabrication of Composites		
Lamination Safety		
Module 4 Controlled Spraying Technology	CCT Basic Composites Manual/ Open Molding Study Guide	10%
Types of application equipment		
Plant compressed air, pumps and equipment		
Equipment Operating Principles		
Grounding of Fluid handling equipment/ equipment calibration		
Equipment Maintenance		
Peroxide and Initiator safety		
Spray application introduction and terminology		
Module 5 The Approach to Quality	CCT Basic Composites Manual/ Open Molding Study Guide	10%
Procedural quality control.		
Shop conditions as a Process control issue		
Preventing Gel Coat Problems		
Quality improvement and processes		
Finished Product cosmetics and surface profiling		
Module 6 Open Molding Finishing and Repair	CCT Basic Composites Manual/ Open Molding Study Guide	10%
Defect Identification		
Repair Procedures		
Repair materials and applications		