

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

TOPIC	EXAM WEIGHT %
<b>MODULE 1</b> Basic Composites Knowledge/Manufacturing materials and process/Overview of Open Molding Lamination <span style="float: right;"><b>20%</b></span>	
Production Processes	Open Molding Tooling
Matrix and Materials	Basic Functions of Composites Laminates
Industry introduction	Application Methodologies
Open Molding Process Principles	Safety Overview
<b>MODULE 2</b> Gel Coat Application Technology <span style="float: right;"><b>20%</b></span>	
Gel coat materials, function, chemistry	Gel Coat Spray Gun selection and setup
Gel Coat Application	Spraying Preparation - Pre Gel Coat Checklist
Gel Coat storage and Handling	Gel Coat Spraying Methodology
Raw material quality assurance	Gel Coat Application Safety
<b>MODULE 3</b> Laminating Application Technology <span style="float: right;"><b>30%</b></span>	
Open Molding Laminate Application	Core and part bonding procedures
Fiber Reinforcements and Placement	Laminating quality control for Open Molding
Laminating Tools of the Trade	Field Fabrication of Composites
Hand Lay-up Laminating Technics	Lamination Safety
Spray up Lamination	
<b>MODULE 4</b> Controlled Spraying Technology <span style="float: right;"><b>10%</b></span>	
Types of application equipment	Equipment Maintenance
Plant compressed air, pumps and equipment	Peroxide and Initiator safety
Equipment Operating Principles	Spray application introduction and terminology
Grounding of Fluid handling equipment/ equipment calibration	
<b>MODULE 5</b> The Approach to Quality <span style="float: right;"><b>10%</b></span>	
Procedural quality control.	Quality improvement and processes
Shop conditions as a Process control issue	Finished Product cosmetics and surface profiling
Preventing Gel Coat Problems	
<b>MODULE 6</b> Open Molding Finishing and Repair <span style="float: right;"><b>10%</b></span>	
Defect Identification	Repair materials and applications
Repair Procedures	