LIGHT RESIN TRANFER MOLDING - CERTIFIED COMPOSITES TECHNICIAN (CCT -LRTM)

TOPIC	Resource	Body of Knowledge %
10110	Resource	Douy or initiating //
	CCT Basic Composites	5%
Module 1 General Composites Knowledge	Manual	
History and basic understanding of the composites industry		
Why composites are unique		
Advantages of Composites		
	CCT Basic Composites	10%
Module 2 Composites Manufacturing Processes	Manual	
Open Molding		
Closed Molding		
Manufacturing process recognition		
	CCT Basic Composites	10%
	Manual, CCT LRTM Study	
Module 3 Composite Materials Identification	Guide	
Materials, reinforcement, selection, orientation, advantages		
Resin systems , initiators, curing agents, measurements,		
applications		
Core materials and laminate bulkers		
Module 4 Light Resin Transfer Molding (LRTM) Process and	CCT LRTM Study Guide	20%
Production		
Darcy's Law		
Light Resin Transfer Molding Process		
Light Resin Transfer Molding Production Cycle		
Module 5 Tooling and Equipment for Light Resin Transfer	CCT LRTM Study Guide	20%
Molding (LRTM)		
Design for Light Resin Transfer Molding		
LRTM Tooling, tool building basics, tooling materials, plug or master		
to build tooling, construction of tooling		
Standard and accessory fittings		
Vacuum Pumps		
The vacuum system		
Mix and metering delivery of resins		
	CCT LRTM Study Guide	15%
Module 6 Materials for Light Resin Transfer Molding		
Reinforcements, resins, initiators and curing agents		
Fillers		
Core materials and laminate bulkers		
Module 7 Gel Coat Application		10%
Introduction to Gel Coating		
Gel Coating Safety, use, storage, handling		
Raw material quality assurance		
Spray gun setup, spraying technics		
Gel coat application methods, spraying technics		
Gel coating for Light Resin Transfer Molding		

	CCT Basic Composites Manual, CCT LRTM Study	10%
Module 8 Light Resin Transfer Molding Troubleshooting	Guide	
Quality methods for Light Resin Transfer Molding (LRTM)		
Troubleshooting in Light Resin Transfer Molding		