



MTI Academy Recommended Tracks For Training in 7 Certificate Programs

QUESTIONS: Amanda Motes - training@heattreat.net

Credit Hours	Courses #	TITLE	Program to Enroll Learner in All Courses at Once						
			100-20	150-20	403	402	402 + 250	250	401
			QFO Qualified Furnace Operator	HTTS Heat Treat Technical Specialist	HTQS Heat Treat Quality Specialist	HTSP Heat Treat Specialist	HTMS Heat Treat Management Specialist	Keys to Supervisory Skills	General Plant & Fire Safety
Credit Hours	10	16	25	63	77	14	20		
2	104-20	ABC's - Materials	X	X	X	X	X		
2	105-20	ABC's - Metallurgical Theory	X	X	X	X	X		
2	102-20	ABC's - Processes	X	X	X	X	X		
2	103-20	ABC's - Equipment	X	X	X	X	X		
2	106-20	ABC's - Quality and Inspection	X	X	X	X	X		
2	117-20	Furnace Atmospheres		X	X	X	X		
2	115-20	Hardness Testing/Evaluation		X	X	X	X		
2	118-20	Furnace Maintenance/Troubleshooting		X	X	X	X		
1	160	Principles of Operating a Heat Treat Facility			X	X	X		
1	143-21	Contract Review 101			X	X	X		
2	154	Blueprints 101			X	X	X		
2	155	Audit Compliance (Nadcap, CQI-9, MedAccred)			X	X	X		
3	161-21	Pyrometry 101			X	X	X		
2	123-21	Machining and Annealing				X	X		
2	152	Process and Atmosphere Controls				X	X		
9	135	Brazing 101				X	X		
2	163	Induction 101				X	X		
2	153	Vacuum 101				X	X		
2	142-21	Martensite Heat Treating				X	X		
2	130-21	Aluminum Heat Treating				X	X		
2	132-21	Tool Steel Heat Treating				X	X		
2	134-21	Aerospace Heat Treating				X	X		
2	124-21	Surface Treatments: Nitriding				X	X		
2	129-21	Surface Treatments: Nitrocarburizing				X	X		
2	125-21	Surface Treatments: Carbonitriding				X	X		
2	127-21	Surface Treatments: Carburizing				X	X		
2	128-21	Surface Treatments: Flame Hardening & Induction				X	X		
2	126-21	Surface Treatments: Plasma and LPC				X	X		
1	139-21	Quenchants				X	X		
2	206	Effective Lean Manufacturing Strategies					X	X	
1	207	Character Traits of a Leader					X	X	
1	208	Communication and Leadership					X	X	
1	209	How Effective Leaders Make Quick Decisions					X	X	
1	210	Leaders Provide the What					X	X	
1	211	How Leaders Develop Effective Teams					X	X	
1	212	Leaders and Staff Development					X	X	
1	213	Great Leaders Obtain Followers					X	X	
1	214	Getting What You Want Without a Fight					X	X	
1	215	How to Calmly Not Choke the Difficult Person					X	X	
1	216	Leadership and Attitude					X	X	
1	217	Leadership and Personalities					X	X	
1	218	Leadership and the Third Person					X	X	
1	107-1	Employee Orientation							X
2	108	Safety: General Plant Safety							X
2	107	Safety: Personal Protective Equipment							X
2	110	Safety: Confined Space							X
2	111	Safety: Lockout - Tagout							X
2	147	Safety: Endothermic Gas Management							X
8	148	Safety: Fire & Explosion Prevention							X
1	151	Safety: Global Harmonized Systems							X