



ADDENDUM

This addendum revises MIAT College of Technology
Catalog, Volume 56 dated August 1, 2013
Effective September 25, 2013

CUSTOMIZED INDUSTRY TRAINING

MIAT College of Technology partners with global business and industry to provide technical training designed to develop and maintain a competitive work force. MIAT delivers flexible customized-designed curriculum to meet specific training needs of an organization. Training can be offered either onsite or at MIAT's campus facilities and scheduled for convenience of both the company and the employees. Customized training solutions can be developed for the fields of aviation, energy, logistics, heating and cooling and information technology. Contact the Director of Training for additional information regarding our services.

The following course is provided for industry on a contract basis and, therefore, does not fall under institutional accreditation.

DTE Energy® – FOSSIL GENERATION BOOT CAMP

DTE Energy Fossil Generation Boot Camp is a combination of classroom, hands-on instruction and outside work/homework. The coursework will cover DTE Energy's pre-employment industry specific training for the **Instrument and Control Technician A** job duties, as well as, DTE Energy's **Power Plant Operator**. Additionally, upon successful completion of the course credit may be awarded and transferable into MIAT College of Technology's Energy Technician Certificate Program.

DTE Energy® – Fossil Generation Boot Camp
240 Clock Hours
6 Weeks

BASIC ELECTRICAL FUNDAMENTALS

Course Number	Course Name	Clock Hours
DTE1-N0-09-020-I0	Basic Energy Concepts	3.0
DTE1-N0-09-016-I0	Circuit Fundamentals	4.0
DTE1-N0-09-007-I0	Electrical Fundamentals	3.0
LP-002239	Magnetism and Electromagnetism	3.0
FSG0-N0-09-013-11	AC Generators	4.0
DTE1-N0-09-022-I0	DC Generators	2.5
DTE0-N0-09-032-I0	DC Motors	3.0
DTE1-N0-09-017-I0	AC Motors	3.0
DTE1-N0-09-015-I0	Circuit Control and Protective Devices	3.0
DTE1-N0-09-018-I0	Electrical Print Reading	3.0
DTE1-N0-09-002-I0	Low Voltage Breakers (480V or Less)	4.0
DTE1-N0-09-021-I0	Recognizing and Controlling Electrical Hazards	2.0
DTE1-N0-09-001-I0	Electrical Test Equipment	5.0
DTE1-N0-09-018-I0	Inductors and Inductance	3.0
DTE1-N0-09-014-I0	Capacitors and Capacitance	3.0
EST-002256	Transformers	6.5
DTE1-N0-09-019-I0	Battery Theory	4.0
DTE1-N0-09-003-I0	Medium Voltage Breakers – Advance	4.0
LP-002259	Programmable Logic Controls	4.0
DTE0-N0-09-025-I0	Power and Power Factor	3.0
EST-002261	Motor Controllers	3.0
DTE1-N0-09-024-I0	Inductive and Capacitive Reactance	4.0
DTE1-N0-09-026-I0	Impedance	3.0

MECHANICAL FUNDAMENTALS

Course Number	Course Name	Clock Hours
LP-002290	Introduction to Steam Power Plants	11.0
LP-002291	Understanding Flow Pressure and Temperature	11.0
LP-002279	Piping and Piping Support	2.0
LP-002280	Fasteners and Torqueing	3.0
LP-002281	Valves	7.0
LP-002282	Steam Traps	4.0
LP-002283	Filters and Strainers	4.0
LP-002284	Heat Exchangers and Condensers	8.0
LP-002285	Bearings and Lubrication	4.0
LP-002286	Pumps	8.0
LP-002287	Air Compressors	4.0
FSG0-N0-09-11	Auxiliary Power Diesel and Combustion Turbines	3.0
LP-002289	Demineralizers and Ion Exchangers	3.5
LP-002309	Indicating Instruments	4.0
LP-002278	Mechanical Print Reading	4.0

POWER PLANT FUNDAMENTALS

Course Number	Course Name	Clock Hours
LP-002292	The Combustion Process	4.0
LP-002294	Fuel Types Preparation and Handling	4.0
LP-002293	Handling of Combustion Air and Gases	8.0
LP-002295	Furnaces	4.0
LP-002296	Furnace Explosions	4.0
LP-002297	Ash Handling	4.0
LP-002298	The Steam Generator	8.0
LP-002299	Turbines	8.0
FSG0-N0-09-010-11	Condensers	2.0
FSG0-N0-09-011-11	Condensate and Boiler Feed System	4.0
FSG0-N0-09-005-11	General Service Water	2.5
LP-002302	Closed Cooling Water (CCW) Systems	2.0
LP-002304	Circulating Water Systems	2.0
FSG-N0-09-006-11	Waste Water Systems	2.0
FSG0-N0-09-004-11	Heating, Ventilating and Air Conditioning	2.0
LP-002307	Fire Detection and Suppression	8.0
FSG8-N0-09-001-10	Compressed Air Systems	3.0
LP-002310	Main Control Systems and Interlocks	8.0