Diesel Technology
Medium and Heavy Truck Technician Diploma

Open Admissions Diploma

Maysville Community and Technical College

Rowan Campus Program Coordinator: Dennis Swartz 606/783-1538 ext 66341, Office A-304
E-Mail: dennis.swartz@kctcs.edu

[Academic Plan Code: 4706054049; Academic Program Code: ENTC; CIP Code: 47060500]

Student Name _____ Student ID _____

General Education	Credit Hours	Semester Taken
Select one from each Area		
Area 1 Writing/ Accessing Information, Oral Communications, Heritage, Humanities, or Foreign Language	3	
Area 2 Social Science, Behavioral Science, Science, or Mathematics	3	
Area3 Computer Literacy or demonstrated competency	0-3	

Required minimum ACT or COMPASS scores

	ACT	COMPASS
Math:	19	34 (Pre-Algebra)
Reading:	20	74
Writing:	18	49

A student must receive a grade of "C" or better to receive credit for successful completion of courses in Diesel Tech.

Technical Core Requirements	Credit Hours	Semester Taken
BEX 100 Basic Electricity for Non-Majors and BEX 101 Basic Electricity lab Non-Majors or ADX 120 Basic Automotive Electricity and ADX 121 Basic Automotive Electricity Lab or ELT 110 Circuits 1	(3) (2) 3 2 (5)	
ADX 170 Climate Control ADX 171 Climate Control Lab	3 2	
DIT 103 Preventative Maintenance Lab	2	
DIT 110 Introduction to Diesel Engines and DIT 111 Introduction to Diesel Engines Lab or ADX 150 Engine Repair and ADX 151 Engine Repair Lab	3 2 (3) (2)	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 140 Hydraulics and DIT 141 Hydraulics Lab or FPX 100 Fluid Power and FPX 101 Fluid Power Lab\	3 2 (3) (2)	
DIT 150 Power Trains DIT 151 Power Trains Lab	3 2	
DIT 190 Electrical Systems for Diesel Equip. DIT 191 Electrical Systems for Diesel Equip. Lab OR ADX 260 Electrical Systems and ADX 261 Electrical Systems Lab	3 2 (3) (2)	

Option Requirements	Credit Hours	Semester Taken
DIT 180 Brakes DIT 181 Brakes Lab	3 2	
DIT 160 Steering and Suspension DIT 161 Steering and Suspension Lab	3 2	
See list for Recommended Technical Electives (Program Coordinator Approval Required)		

52-55 TOTAL DIPLOMA CREDIT HOURS

Diesel Technology
Agriculture Equipment Technician Diploma

Open Admissions Diploma

Maysville Community and Technical College

Rowan Campus Program Coordinator: Dennis Swartz 606/783-1538 ext 66341, Office A-304
E-Mail: dennis.swartz@kctcs.edu

[Academic Plan Code: 4706054019; Academic Program Code: ENTC; CIP Code: 47060500]

Student Name _____ Student ID _____

General Education	Credit Hours	Semester Taken
Select one from each Area		
Area 1 Writing/ Accessing Information, Oral Communications, Heritage, Humanities, or Foreign Language	3	
Area 2 Social Science, Behavioral Science, Science, or Mathematics	3	
Area3 Computer Literacy or demonstrated competency	0-3	

. Required minimum ACT or COMPASS scores

	ACT	COMPASS
Math:	19	34 (Pre-Algebra)
Reading:	20	74
Writing:	18	49

A student must receive a grade of "C" or better to receive credit for successful completion of courses in Diesel Tech.

Technical Core Requirements	Credit Hours	Semester Taken
BEX 100 Basic Electricity for Non-Majors and BEX 101 Basic Electricity lab Non-Majors or ADX 120 Basic Automotive Electricity and ADX 121 Basic Automotive Electricity Lab or ELT 110 Circuits 1	(3) (2) 3 2 (5)	
ADX 170 Climate Control ADX 171 Climate Control Lab	3 2	
DIT 103 Preventative Maintenance Lab	2	
DIT 110 Introduction to Diesel Engines and DIT 111 Introduction to Diesel Engines Lab or ADX 150 Engine Repair and ADX 151 Engine Repair Lab	3 2 (3) (2)	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 140 Hydraulics and DIT 141 Hydraulics Lab or FPX 100 Fluid Power and FPX 101 Fluid Power Lab\	3 2 (3) (2)	
DIT 150 Power Trains DIT 151 Power Trains Lab	3 2	
DIT 190 Electrical Systems for Diesel Equip. DIT 191 Electrical Systems for Diesel Equip. Lab OR ADX 260 Electrical Systems and ADX 261 Electrical Systems Lab	3 2 (3) (2)	

Option Requirements	Credit Hours	Semester Taken
IMT 100 Welding for Maintenance and IMT 101 Welding for Maintenance Lab or DIT 121 Introduction to Maintenance Welding Lab **or** WLD 120 Shielded Metal Arc Welding WLD 121 SMAW Fillet Lab	(3) (2) 3 (2) (3)	
DIT 152 Powertrain for Construction Equipment DIT 153 Powertrain for Construction Equipment Lab	3 2	
See list for Recommended Technical Electives (Program Coordinator Approval Required)		

50-55 TOTAL DIPLOMA CREDIT HOURS

Diesel Technology
Construction Equipment Technician Diploma

Open Admissions Diploma

Maysville Community and Technical College

Rowan Campus Program Coordinator: Dennis Swartz 606/783-1538 ext 66341, Office A-304
E-mail: dennis.swartz@kctcs.edu

[Academic Plan Code: 4706054019; Academic Program Code: ENTC; CIP Code: 47060500]

Student Name _____ Student ID _____

General Education	Credit Hours	Semester Taken
Select one from each Area		
Area 1 Writing/ Accessing Information, Oral Communications, Heritage, Humanities, or Foreign Language	3	
Area 2 Social Science, Behavioral Science, Science, or Mathematics	3	
Area3 Computer Literacy or demonstrated competency	0-3	

Required minimum ACT or COMPASS scores

	ACT	COMPASS
Math:	19	34 (Pre-Algebra)
Reading:	20	74
Writing:	18	49

A student must receive a grade of "C" or better to receive credit for successful completion of courses in Diesel Tech.

Technical Core Requirements	Credit Hours	Semester Taken
BEX 100 Basic Electricity for Non-Majors and BEX 101 Basic Electricity lab Non-Majors or ADX 120 Basic Automotive Electricity and ADX 121 Basic Automotive Electricity Lab or ELT 110 Circuits 1	(3) (2) 3 2 (5)	
ADX 170 Climate Control ADX 171 Climate Control Lab	3 2	
DIT 103 Preventative Maintenance Lab	2	
DIT 110 Introduction to Diesel Engines and DIT 111 Introduction to Diesel Engines Lab or ADX 150 Engine Repair and ADX 151 Engine Repair Lab	3 2 (3) (2)	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 140 Hydraulics and DIT 141 Hydraulics Lab or FPX 100 Fluid Power and FPX 101 Fluid Power Lab\	3 2 (3) (2)	
DIT 150 Power Trains DIT 151 Power Trains Lab	3 2	
DIT 190 Electrical Systems for Diesel Equip. DIT 191 Electrical Systems for Diesel Equip. Lab OR ADX 260 Electrical Systems and ADX 261 Electrical Systems Lab	3 2 (3) (2)	

Option Requirements	Credit Hours	Semester Taken
IMT 100 Welding for Maintenance and IMT 101 Welding for Maintenance Lab or DIT 121 Introduction to Maintenance Welding Lab **or** WLD 120 Shielded Metal Arc Welding WLD 121 SMAW Fillet Lab	(3) (2) 3 (2) (3)	
DIT 152 Powertrain for Construction Equipment DIT 153 Powertrain for Construction Equipment Lab	3 2	
DIT 123 Undercarriage Lab	3	
See list for Recommended Technical Electives (Program Coordinator Approval Required)		

53-58 TOTAL DIPLOMA CREDIT HOURS

Recommended Technical Electives Diesel Technology

DIT 180 Brakes	3
DIT 181 Brakes Lab	2
DIT 160 Steering and Suspension	3
DIT 161 Steering and Suspension Lab	2
DIT 121 Introduction to Maintenance Welding Lab or	3
IMT 100 Welding for Maintenance AND	(3)
IMT 101 Welding for Maintenance Lab OR	(2)
WLD 120 Shielded Metal Arc Welding (SMAW) AND	(3)
WLD 121 Shielded Metal Arc Welding (SMAW) Lab	(2)
DIT 123 Undercarriage Lab	3
DIT 152 Powertrain for Construction Equipment	3
DIT 153 Powertrain for Construction Equipment Lab	2
DIT 105 Mechanical Concepts OR	1
PMX 100 Precision Measurement	(3)
DIT 193 Special Problems I	1
DIT 195 Special Problems II	2
DIT 197 Special Problems III	3
DIT 198 Practicum	1
DIT 298 Practicum II	2
DIT 199 Cooperative Education	1
DIT 299 Cooperative Education II	2

(or other courses as approved by the Program Coordinator that will prepare the student for entry into the workforce)

Diesel Technology Description:

The skills needed to analyze malfunctions and repair, rebuild and maintain construction equipment, agriculture equipment, or medium and heavy trucks are emphasized in this program. Students are provided instruction and experience in systems such as diesel engines, fuel injection, onboard computers, transmissions, steering and suspension, and brakes.
Computer Literacy must be demonstrated either by competency exam or by successfully completing a computer literacy course prior to 40 credit hours in diploma and degree credentials.
A student must receive a grade of "C" or better to receive credit for successful completion of courses in the diesel technology curriculum.

Diesel Technology — Open Admissions
Maysville Community & Technical College — Certificate

Program Coordinator: Dennis Swartz Contact Information: 606/783-1538 Ext 66341, Office A-304, Email Dennis.Swartz@kctcs.edu

	Math	Reading	Writing
ACT	19	20	18
COMPASS	34	74	49

Construction Equipment Mechanic Helper Certificate

[Academic Plan Code: 4706053019; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
ADX 150 Engine Repair AND	(3)	
ADX 151 Engine Repair Lab OR	(2)	
DIT 110 Introduction to Diesel Engines	3	
DIT 111 Introduction to Diesel Engines Lab	2	
ADX 260 Electrical Systems AND ADX 261 Electrical Systems Lab OR	(3) (2)	
DIT 190 Electrical Systems for Diesel Equipment AND DIT 191 Electrical Systems for Diesel Equipment Lab	3 2	

Core Requirements *continued*	**Credit Hours**	**Semester Taken**
DIT 112 Diesel Engine Repair	3	
DIT 113 Diesel Engine Repair Lab	2	
DIT 152 Powertrain, construction Equip.	3	
DIT 153 Powertrain, Construction Equip. Lab	2	
DIT 123 Undercarriage	3	
Total Credits	**23**	

Diesel Engine Mechanic Certificate

[Academic Plan Code: 4706053079; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
DIT 110 Introduction to Diesel Engines **and**	3	
DIT 111 Introduction to Diesel Engines Lab **or**	2	
ADX 150 Engine Repair and	(3)	
ADX 151 Engine Repair Lab	(2)	
DIT 112 Diesel Engine Repair	3	
DIT 113 Diesel Engine Repair Lab	2	
Electives (Diesel Courses/IE Core)	2	
Total Credits	**12**	

Diesel Steering and Suspension Mechanic Certificate

[Academic Plan Code: Academic Program Code: CIP Code 47060500]

Core Requirements	**Credit Hours**	**Semester Taken**
DIT 160 Steering and Suspension	3	
DIT 161 Steering and Suspension Lab	2	
Electives (Diesel Courses or IE Core)	7	
Total Credits	**12**	

Diesel Technology — Certificates

Diesel Technology: Agriculture Equipment Mechanic Helper

[Academic Plan Code:4706053109;
Academic Program Code: ENTC; CIP Code: 47060500]

Core Requirements *Taken upon program admission*	Credit Hours	Semester Taken
ADX 150 Engine Repair and	3	
ADX 151 Engine Repair Lab **OR**	2	
DIT 110 Introduction to Diesel Engines **and** DIT 111 Introduction to Diesel Engines Lab	3 2	
ADX 260 Electrical Systems **and** ADX 261 Electrical Systems Lab **or**	3 2	
DIT 190 Electrical Systems for Diesel Equipment and DIT 191 Electrical Systems for Diesel Equipment Lab	3 2	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 152 Powertrain for Construction Equipment DIT 153 Powertrain for Construction Equipment Lab	3 2	
Total Credits	**20**	

Diesel Technology: Diesel Mechanics Assistant

[Academic Plan Code:
Academic Program Code: ENTC; CIP Code: 47060500]

Core Requirements	Credit Hours	Semester Taken
DIT 103 Preventative Maintenance Lab	2	
DIT 110 Introduction to Diesel Engines DIT 111 Introduction to Diesel Engines Lab	3 2	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 160 Steering and Suspension DIT 161 Steering and Suspension Lab	3 2	
DIT 180 Brakes DIT 181 Brakes Lab	3 2	
DIT 190 Electrical Systems for Diesel Equipment DIT 191 Electrical Systems for Diesel Equipment Lab	3 2	
Total Credits	**27**	

Diesel Technology — Open Certificate

Medium and Heavy Truck Mechanic Helper

[Academic Plan Code: 4706053149 ; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	Credit Hours	Semester Taken
ADX 120 Basic Automotive Electricity **and**	3	
ADX 121 Basic Automotive Electricity Lab **or**	2	
BEX 100 Basic Electricity for Non-Majors **and**	(3)	
BEX 101 Basic Electricity for Non-Majors Lab	(2)	
ELT 110 Circuits	(5)	
ADX 150 Engine Repair **and** ADX 151 Engine Repair Lab **or** DIT 110 Introduction to Diesel Engines **and** DIT 111 Introduction to Diesel Engines Lab	3 2 (3) (2)	

Core Requirements *continued*	Credit Hours	Semester Taken
ADX 260 Electrical Systems **and**	3	
ADX 261 Electrical Systems Lab **or**	2	
DIT 190 Electrical Systems for Diesel Equipment **and**	(3)	
DIT 191 Electrical Systems for Diesel Equipment Lab	(2)	
DIT 112 Diesel Engine Repair DIT 113 Diesel Engine Repair Lab	3 2	
DIT 160 Steering and Suspension DIT 161 Steering and Suspension Lab DIT 180 Brakes DIT 181 Brakes Lab	3 2 3 4	
Total Credits	**30**	

Fluid Power Mechanic Certificate

[Academic Plan Code: 4706053119; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
DIT140 Hydraulics and	3	
DIT141 Hydraulics Lab **or**	2	
FPX 101 Fluid Power and	(3)	
FPX 101 Fluid Power Lab	(2)	
Electives (Diesel Courses or IE Core)	7	
Total Credits	**12**	

Heavy Duty Brake Mechanic Certificate

[Academic Plan Code: 4706053089; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements	**Credit Hours**	**Semester Taken**
DIT 180 Brakes	3	
DIT 181 Brakes Lab	2	
Electives (Diesel Courses or IE Core)	7	
Total Credits	**12**	

Diesel Technology — Open Certificate

Electrical / Electronics Systems Mechanic Certificate

Program Coordinator: **Dennis Swartz**

Contact Information: Telephone Ext 66341, Office LocationT-207, Email Dennis.swartz@kctcs.edu

[Academic Plan Code:4706053059 ; Academic Program Code: ENTC; CIP Code: 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
BEX 100 Basic Electricity for Non-Majors **and**	(3)	
BEX 101 Basic Electricity for Non-Majors Lab **or**	(2)	
ADX 120 Basic Automotive Electricity **and**	3	
ADX 121 Basic Automotive Electricity Lab **or**	2	
ELT 110 Circuits	(5)	

Core Requirements *continued*	**Credit Hours**	**Semester Taken**
DIT 190 Electrical Systems for Diesel Equipment **and**	3	
DIT 191 Electrical Systems for Diesel Equipment Lab **or**	2	
ADX 260 Electrical Systems and	(3)	
ADX 261 Electrical Systems Lab	(2)	
Electives (Diesel Courses or IE Core)	2	
Total Credits	**12**	

Mobile Air Conditioning Mechanic Certificate

[Academic Plan Code:4706053029 ; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
ADX 170 Climate Control	3	
ADX 171 Climate Control Lab	1	
Electives (Diesel Courses/IE Core)	8	
Total Credits	**12**	

Undercarriage Mechanic Certificate

[Academic Plan Code:4706053099 Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements	**Credit Hours**	**Semester Taken**
DIT 123 Undercarriage Lab	3	
Electives (Diesel Courses or IE Core)	9	
Total Credits	**12**	

Preventive Maintenance Technician Certificate

[Academic Plan Code: 4706053199; Academic Program Code: ENTC; CIP Code 47060500]

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
DIT 103 Preventive Maintenance Lab	2	
Electives (Diesel Courses/IE Core)	10	
Total Credits	**12**	

Heavy Duty Drive Train Mechanic

[Academic Plan Code: 4706053199; Academic Program Code: ENTC; CIP Code 470653089

Core Requirements *Taken upon program admission*	**Credit Hours**	**Semester Taken**
DIT150 Power Trains	3	
DIT151 Power Trains Lab	2	
Electives (Diesel Courses/IE Core)	7	
Total Credits	12	