

# 2021-2022 TTC Catalog - Diesel Mechanics

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## **DHM 101 - Introduction to Diesel Engines**

**Lec:** 2.0 **Lab:** 6.0 **Credit:** 4.0

### **Course Offered**

Fall

This course is an introduction to diesel engine design and operation principles.

### **Prerequisite**

DHM 159

and

DHM 173

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 107 - Diesel Equipment Service and Diagnosis**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

### **Course Offered**

Spring

This course is a study of heavy vehicle systems with emphasis on preventive maintenance, problem diagnosis, and repair procedures.

### **Prerequisite**

DHM 101

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 151 - Automatic and Automated Transmissions**

**Lec:** 1.0 **Lab:** 9.0 **Credit:** 4.0

This course is a study of the theory and repair of drive trains systems.

### **Prerequisite**

DHM 101

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 152 - Automatic and Automated Transmissions**

**Lec:** 1.0 **Lab:** 9.0 **Credit:** 4.0

### **Course Offered**

Summer

This course is a study of heavy vehicle transmissions.

### **Prerequisite**

DHM 151

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 159 - Shop Orientation - Tools, Equipment and Service Manuals**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

### **Course Offered**

Fall

This course is the study of shop layout, vehicle lifts, basic hand tools, special tools and equipment, precision measuring tools, and vehicle repair information systems.

### **Prerequisite**

MAT 032

or have appropriate test scores

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 173 - Electrical Systems I**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

This course is a study of basic electrical theory as applied to truck and heavy equipment batteries, starters, and alternators.

### **Prerequisite**

MAT 032

or have appropriate test scores

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 225 - Electronic Fuel Systems**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Fall

Spring

Summer

This course covers the theory and practical application of electronic fuel power systems.

### **Prerequisite**

DHM 101

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 232 - Heating Cooling and Air-Conditioning Systems**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

### **Course Offered**

Spring

This course is an introduction to engine heating and cooling systems used in modern trucks. Various truck and heavy equipment air conditioning systems are explored.

### **Prerequisite**

DHM 159

and

DHM 173

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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## **DHM 251 - Suspension and Steering**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

### **Course Offered**

Fall  
Spring  
Summer

This course is a study of steering systems, suspension systems, and basic front-end alignment techniques.

**Prerequisite**

DHM 159  
and  
DHM 173

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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**DHM 255 - Air Brake Systems**

**Lec:** 1.0 **Lab:** 6.0 **Credit:** 3.0

**Course Offered**

Fall

This course is a study of air compressors, valves, electrical controls and brake designs.

**Prerequisite**

DHM 159  
and  
DHM 173

**Grade Type:** Letter Grade

**Division:** Manufacturing and Maintenance

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