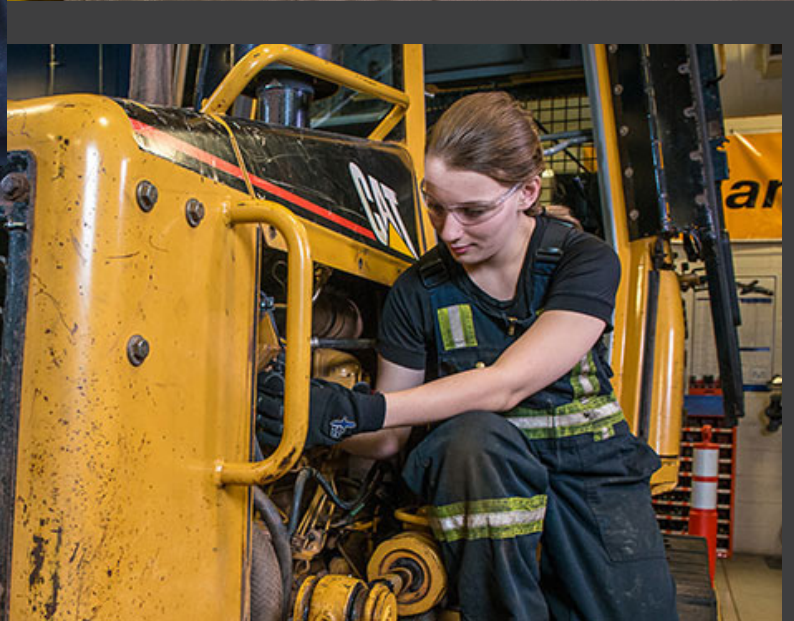
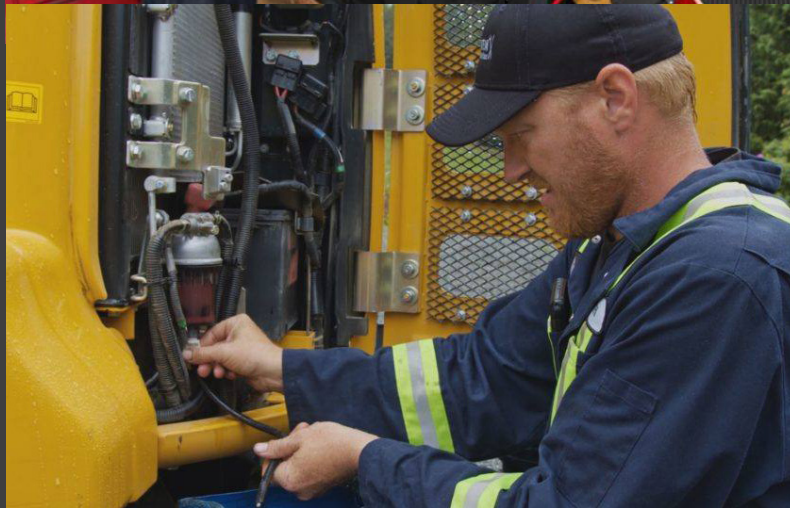


May 2024

# Ohio Operating Engineers Maintenance Technician

Get Started on an  
in-demand career





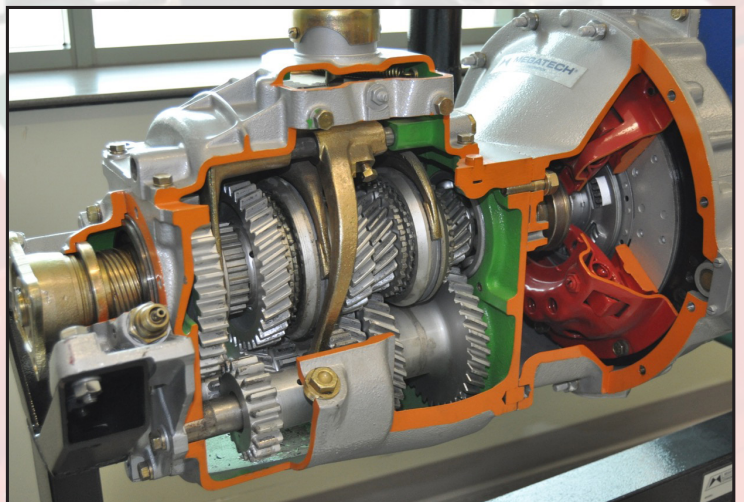
This program was created to help meet the huge demand for mechanics in the construction industry. If accepted, you will receive intensive training in the areas indicated in the outline on the following pages, at no cost to you.

To become a Maintenance Technician a person must complete four (4) years of apprenticeship training which includes a minimum of 1280 hours of classroom and related instruction, a minimum of 4000 hours of employment and successfully passing the written and machine performance tests.

Apprentices attend 320 hours of related instruction per year on their own time, for which they are not paid. Classes are scheduled in intervals of 2 - 40 hour weeks of block training at a time.

Apprentices are employed through the union hiring hall and are dispatched to work in accordance with the union referral system.

The Ohio Operating Engineers Training Program is an **INDUSTRY SPONSORED AND FUNDED** registered Apprenticeship Training Program. The sponsors of this program are the International Union of Operating Engineers Local 18, the Ohio Contractors Association, and the Ohio Building Chapter of the Associated General Contractors.





## Local 18 Maintenance Technician

### First Year Curriculum



### Fall Block

#### Week A1 - Logan-

**Introduction to Program & Textbooks**  
Shop Safety & Practices  
Lifting & Rigging Procedures  
Precision Tools  
Parts Manuals  
Online Research & Practical Application  
To include Cat SIS – Service Info System  
Diesel Fuels & Fluids  
Fasteners, Hose Repair & Assembly-Kimble

#### Week A2 - Logan-

**Intro & Principles of Diesel Engines**  
Intro to Hydraulic Systems & Components  
Operator Manuals

#### Week A3 - Logan-

**Support Equipment Repair**  
Small Engines, Compressors, Pumps,  
Generators, Welders, Chain Saws

#### Week A4 - Logan-

**Introduction to Electrical Systems**

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### Spring Block

#### Week A5 - Logan-

**Hydraulic & Air Brake Systems**  
Tires, Rims and Ballasting  
Undercarriages  
Ground Engaging Equipment  
Components Lab time & shop

#### Week A6 - Logan-

**Power Trains – Part 1 Transmissions**  
Clutches  
Manual Transmissions  
Components Lab time & shop

#### Week A7 - Home

**Shop Operations**

#### Week A8 - Home

**Shop Operations**

# Local 18 Maintenance Technician

## *Second Year Curriculum*

### **Fall Block**

#### **Week B1 - Logan-**

##### **Level II - Engines & Components**

Introduction to Tier IV Engines

Mock engine overhaul

#### **Week B2 - Logan-**

##### **Level II - Hydraulic Systems & Schematics**

Pressure-Compensating (PC) Hyd. Systems

Load-Sensing Pressure Compensating (LSPC)

Hydraulic Systems

#### **Week B3 - Logan-**

##### **Level II – Power Train Systems**

Powershift & Automatic Transmission Theory

Hydrodynamic Drives

Hydrostatic Drives

#### **Week B4 - Logan-**

##### **Power Trains – Part 2 Final Drives**

Differentials - Differential steering

Final Drives

Axles & Driveshafts

Components Lab time & shop

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### **Spring Block**

#### **Week B5 - Logan-**

##### **Level II - Electrical Systems**

Diesel Engine Charging Systems

Diesel Starting Systems

Schematic Print Reading

#### **Week B6 - Home-**

##### **Level II - Welding Processes**

#### **Week B7 - Home**

**Shop Operations**

#### **Week B7 - Home**

**Shop Operations**

# Local 18 Maintenance Technician

## *Third Year Curriculum*

### **Fall Block**

#### **Week C1 - Miamisburg**

**Level III - Crane Assembly & Disassembly**  
Rigging & LMI Instruction  
Crane Instructor & Mechanics

#### **Week C2 - Logan**

**Level III – Excavator Hydraulic Systems**  
Excavator Pump Controls  
Diagnostic Tests & Adjustments

#### **Week C3 - Miamisburg**

**Line Boring Class & Application**  
Machine Tooling

#### **Week C4 - Logan-**

**Level III - Engines**  
Tier IV Troubleshooting  
Electronic Engine Controls and Fuel Injection  
Intro to Electronic Diagnostic Equipment  
\*Cat E.T. “Electronic Technician”  
\*John Deere “Service Advisor”  
Komatsu, International and others  
Components Lab time & shop

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### **Spring Block**

#### **Week C5 - Logan-**

**Level III – Power Trains**  
Powershift & Automatic Transmission Controls,  
Service and Repair  
Hydrostatic Drive Service and Diagnostics  
Diagnostic Overhaul & Mock Rebuild Project  
Components Lab time & shop

#### **Week C6 - Logan-**

**Level III - GPS Overview & Diagnosis**  
Air Conditioning Service

#### **Week C7 - Home**

**Shop Operations**

#### **Week C8 – Home**

**Shop Operations**

# Local 18 Maintenance Technician

## *Fourth Year Curriculum*

### **Fall Block**

#### **Week D1 - Logan-**

**Level III– Tier IV Troubleshooting**  
CAN Bus Electrical

#### **Week D2 - TBA**

**Level III - Engines**  
Diagnostic Overhaul & Rebuild Project  
**OR**

#### **Week D3 - TBA**

**Level III– Power Trains**  
Diagnostic Overhaul & Rebuild Project  
**OR**

#### **Week D4 - TBA**

**Level III– Hydraulic**  
Diagnostic Overhaul & Rebuild Project

**\*Student may receive credit for time & projects completed for contractors if proper documentation is submitted and verified by instructors.**

**\*Factory Training counts as hour-for-hour credit\***

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### **Spring Block**

#### **Week D5 – Logan-**

**Level III– Hydraulic Troubleshooting**

#### **Week D6 - TBA**

**Shop Operations**

#### **Week D7 - TBA**

**Shop Operations**

#### **Week D8 - TBA**

**Shop Operations**

**\* Please note: All curriculum listed is subject to changes as we develop our program to address our members' needs.**



# Maintenance Technician Yearly Requirements

Each apprentice shall be required to attend a total of eight weeks for block training, scheduled in two-week intervals, each year of the apprenticeship.

## **The minimum requirements for the completion of the first year are:**

- 1000 hours of on the job training, (OJT)
- Commercial Driver's License; Class A
- All classroom/shop training weeks completed with passing scores on exams
- 8-hour of forklift class (Industrial/Rough Terrain); plus, a skills practical for each
- 16-hour Safety Training Passport (STP)
- 8-hour Signal Person Qualification; plus, a skills practical
- Labor History Class
- Attend a minimum of 3 Union Meetings

## **The minimum requirements for the completion of the second year are:**

- A total of 2000 hours of on the job training, (OJT)
- All classroom/shop training weeks completed with passing scores on exams
- Completion of MSHA training (Mine Safety & Health Administration)
- Attend a minimum of 3 Union Meetings

## **The minimum requirements for the completion of the third year are:**

- A total of 3000 hours of on the job training, (OJT)
- All classroom/shop training weeks completed with passing scores on exams
- Attendance of the annual MSHA Refresher
- Attend a minimum of 3 Union Meetings

## **The minimum requirements for graduation are:**

- A total of 4000 hours of on the job training, (OJT)
- All classroom/shop training weeks completed with passing scores on exams
- Attendance of the annual MSHA Refresher
- Attendance of the Forklift Certification Refresher
- Attend a minimum of 3 Union Meetings



# OPERATING ENGINEERS

## LOCAL 18



**YOUR FUTURE**

**UNION WAGES**



**STARTS HERE**

**GREAT BENEFITS**

### Contact Us

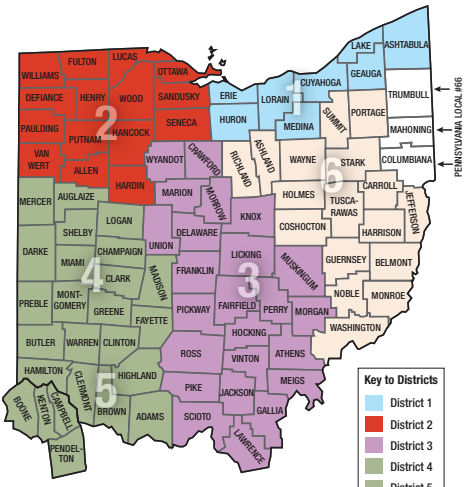
IUOE Local 18

[www.local18training.com](http://www.local18training.com)



### IUOE Local 18 Jurisdiction

*Counties Shown as Served by District*



Local 18 jurisdiction includes 4 northern counties in Kentucky: Boone, Campbell, Kenton, Pendleton, and excludes Columbiana, Mahoning and Trumbull counties in Ohio.

<p><b>District 1 and District 6</b></p> <p>Richfield Training Center</p> <p>4675 Newton Road Richfield, Ohio 44286</p> <p>330-659-4115 or 800-842-9419</p>	<p><b>District 2</b></p> <p>Cygnnet Training Center</p> <p>9435 Cygnnet Road Cygnnet, Ohio 43413</p> <p>419-655-3282 or 888-634-6880</p>
<p><b>District 3</b></p> <p>Logan Training Center</p> <p>30410 Strawn Road Logan, Ohio 43138</p> <p>740-385-2567 or 888-385-2567</p>	<p><b>District 4/5</b></p> <p>Miamisburg Training Center</p> <p>4250 Soldier's Home Miamisburg Road Miamisburg, Ohio 45342</p> <p>937-859-5211 or 800-635-4928</p>