



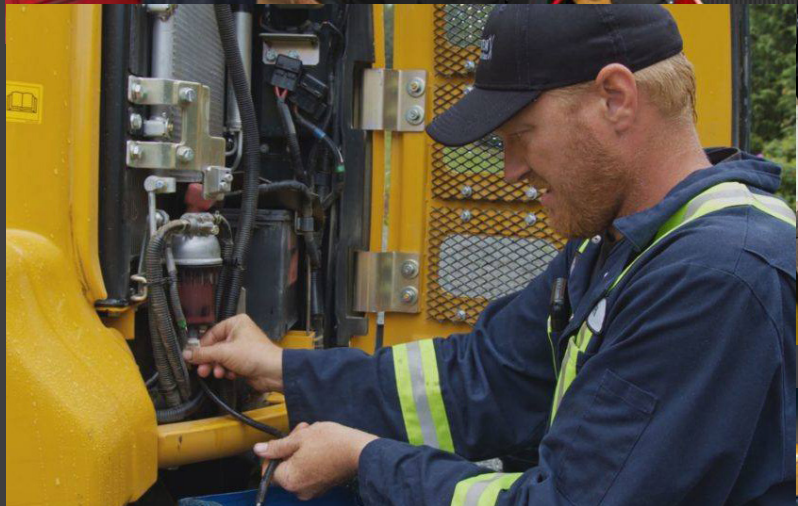
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May 2026

Ohio Operating Engineers Maintenance Technician

Get Started on an
in-demand career



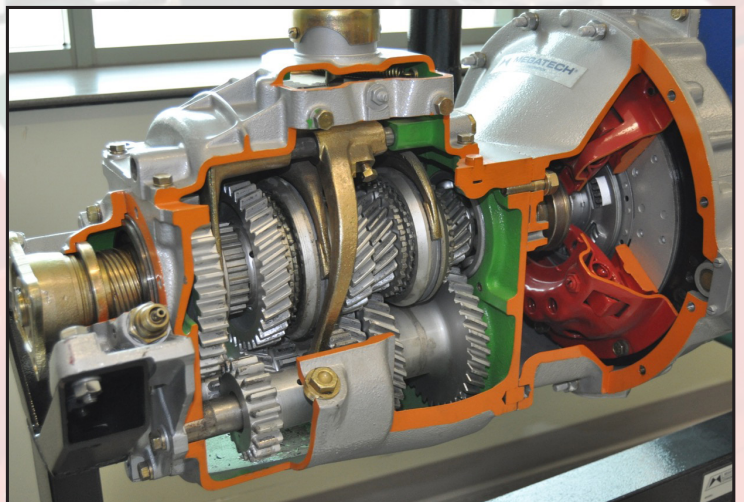
This program was created to help meet the huge demand for mechanics in the construction industry. If accepted, you will receive intensive training in the areas indicated in the outline on the following pages, at no cost to you.

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

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

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

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

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 Apprenticeship

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 forklift class (Industrial/Rough Terrain); plus, a skills practical for each
- 16-hour Safety Training Passport (STP)
- 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)
- Signal Person Rigger Certification (practicals included)
- 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 the completion of fourth year 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

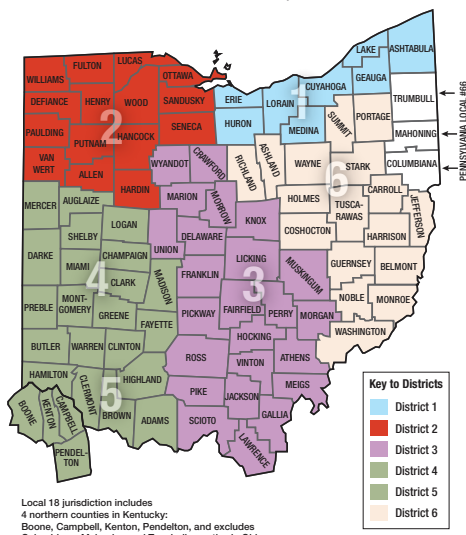
IUOE Local 18

www.local18training.com



IUOE Local 18 Jurisdiction

Counties Shown as Served by District



District 1 and District 6

Richfield Training Center

4675 Newton Road
Richfield, Ohio 44286

330-659-4115

District 2

Cygnnet Training Center

9435 Cygnnet Road
Cygnnet, Ohio 43413

419-655-3282

District 3

Logan Training Center

30410 Strawn Road
Logan, Ohio 43138

740-385-2567

District 4/5

Miamisburg Training Center

4250 Soldier's Home
Miamisburg Road
Miamisburg, Ohio 45342

937-859-5211