

The Groves Campus  
7107 Elm Valley Drive  
PO Box 4070  
Kalamazoo, MI 49003-4070  
269.353.1253  
[www.kvcc.edu/mtec](http://www.kvcc.edu/mtec)

Texas Township Campus  
6767 West O Avenue  
PO Box 4070  
Kalamazoo, MI 49003-4070  
269.488.4400

Arcadia Commons Campus  
202 North Rose Street  
PO Box 4070  
Kalamazoo, MI 49003-4070  
269.373.7800

Kalamazoo Valley Museum  
230 North Rose Street  
PO Box 4070  
Kalamazoo, MI 49003-4070  
269.373.7990

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Media Contact:  
Craig Jbara  
Vice President Strategic Business and Community Development  
[cjbara@kvcc.edu](mailto:cjbara@kvcc.edu) or 269.353.1263

### **Mechanical and Machine Maintenance Training Coming to Groves Campus**

Area employers looking to sharpen employee mechanical and machine maintenance skills are encouraged to register for two upcoming training courses at Kalamazoo Valley Groves Campus. Basic Mechanical training will be held February 21 from 8 a.m. – 5 p.m. The course is the prerequisite to Machine Maintenance which will be held March 7, 14 and 21 from 8 a.m.- 5 p.m.

In Basic Mechanical participants will learn the fundamental principles of safe work practices, methods of maintaining and troubleshooting mechanical plant equipment and the competencies needed to recognize and report worn part conditions. The course runs \$290 per person, includes foods service and training materials.



Upon completion of the Basic Mechanical course, participants can enroll in the three-day Machine Maintenance course where they will learn many of the skills needed to work in the mechanical or machine maintenance field. This course, which runs \$870 per person, will develop skills in performing both preventative and predictive maintenance and provide the participant the opportunity to perform motor repair/servicing.

Upon completion of this course, participants will be able to:

- Pull an oil sample for inspection.
- Change the oil of a machine using the vacuum method to reduce/eliminate spills.
- Check and replace filters.
- Perform a vibration analysis to determine potential problems in rotational equipment.
- Perform a laser alignment to correct misaligned rotational equipment.
- Determine the correct torque value for a bolt and use the proper equipment (torque wrench, torque multiplier, torque extension) and apply the correct amount using proper technique.
- Remove a motor flange and record the proper setback.
- Remove motor bearings using the proper techniques, record setback, determine if grease is needed and how much, and heat bearing to proper temperature using an induction heater.
- Use a borescope to examine a gearbox and note any damage found.

Both courses are led by Ian Salo. He is currently the lead instructor for all of the Mechatronic modules and a certified FANUC Robotics instructor. Salo has more than 17 years of experience using a variety of CAD software packages, nine years of Engineering Principles, five years in 3D printing, and has recently added MasterCAM to his skill set. He is a graduate of Western Michigan University with a Bachelor of Science degree with majors in Industrial Technology & Business Education.

For more information contact Patricia Schroeder at [pschroeder@kvcc.edu](mailto:pschroeder@kvcc.edu) or 269. 353.1275 or Kate Miller at [kmiller1@kvcc.edu](mailto:kmiller1@kvcc.edu) or 269.353.1257.

To register, visit <https://p2.kvcc.edu/morp/client/mtecreg.plx>