# Maintenance and Reliability at a Glance

**Program Start Dates:**
Primary start dates are: August, January, and June. General education classes can be taken March, June, and October.

**Program Description**
The Maintenance and Reliability Technician program is based on technologies and NDT methods, which assess the current condition of rotating or stationary industrial equipment and attempts to predict its lifespan by assigning failure levels to operating equipment. These technologies drive all maintenance performed on equipment including preventive maintenance. Asset condition is used to schedule maintenance, ensuring asset health while lowering down time and unnecessary maintenance. The predictive technologies are generally accepted to include: Vibration Analysis, Lubricating Fluid Analysis, Thermography, Acoustic Emission Testing, and Electric Motor Circuit Analysis. O-Net: 17-3029.01

**Visit our Campus!**
We will cover everything you will need to know about:
- Information about the maintenance and reliability program
- Assist with completing our WSU Tech application
- Give information about enrollment and the FAFSA application
- Tour of campus and programs

To schedule an appointment, call 316-677-9680 or schedule with this link: https://WSUTechAdvising.as.me/?calendarID=2729241.

<table>
<thead>
<tr>
<th>Type of Degree/Certificate</th>
<th>Day Only</th>
<th>Length Based on Average Rate of Completion</th>
<th>Hours**</th>
<th>*Cost Tuition Only</th>
<th>Financial Aid Eligible</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS – Maintenance &amp; Reliability</td>
<td>Day</td>
<td>2 years</td>
<td>MTWRF 8am-12pm</td>
<td>$13,354</td>
<td>Yes</td>
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<tr>
<td>TC - Maintenance &amp; Reliability</td>
<td>Day</td>
<td>1 year</td>
<td>MTWRF 8am-12pm</td>
<td>$10,474</td>
<td>Yes</td>
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<tr>
<td>COC – Predictive Maintenance</td>
<td>Day</td>
<td>8 weeks</td>
<td>MTWRF 8am-12pm</td>
<td>$3,144</td>
<td>No</td>
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<tr>
<td>COC - Lubrication Technician</td>
<td>Day</td>
<td>8 weeks</td>
<td>MTWRF 8am-12pm</td>
<td>$3,042</td>
<td>No</td>
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<tr>
<td>COC - Vibration Analyst</td>
<td>Day</td>
<td>8 weeks</td>
<td>MTWRF 8am-12pm</td>
<td>$3,149</td>
<td>No</td>
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<tr>
<td>COC - Thermographer</td>
<td>Day</td>
<td>8 weeks</td>
<td>MTWRF 8am-12pm</td>
<td>$3,499</td>
<td>No</td>
</tr>
</tbody>
</table>

Class times represent schedule for technical classes. General Education classes are available day, evening, & online. Costs are approximate and subject to change. Cost include tuition and student fees (Books are not included in amount). Class schedules and availability are subject to change. All technical classes are located at 4004 North Webb Road, Wichita KS. For current info, please visit: https://wsutech/maintenance-and-reliability/

**Questions for Our Instructor?**
Allen Warren: awarren6@wsutech.edu
Frequently Asked Questions

What is NDT and how is it connected to Maintenance and Reliability?
NDT is Nondestructive Testing. This is a way using different methods to inspect or test materials without physically damaging it. There are several methods that are used in industry. Some are Magnetic Particle, Liquid Penetrant, Radiographic, Ultrasonic, and Visual Testing. Maintenance and Reliability covers additional methods of NDT. You can find out more information about NDT at https://www.asnt.org/Home

Information about Thermographer COC
This training covers the principles of Thermography and the operation of infrared equipment. Students will learn the modes of heat transfer and radiosity. Principles such as identifying acceptable and rejectable images, optimizing images, selected the best image perspective for data capture. Finally, students will cover image storage and recall, and report writing. Home/Building Inspectors.

Information about Predictive Maintenance COC
Predictive Maintenance Entry-Level Technician is a combination of the predictive classes in our program. Students will take Vibration Analysis, Thermography, and Machine Lubrication and Analysis along with OSHA, Precision Instruments, and Mathematics.

Information about Vibration Analyst COC
Vibration Analysis will cover terminolgy, measurement units, hardware and software. It also covers functional understanding of basic machinery. Finally, students will learn skills in data collection and analysis. Besides NDT technicians, these skills are used by aerospace engineers, industrial machinery mechanics, and operation research analysts.

Information about Lubrication Technician and Oil Analyst COC
This training covers machine lubrication and techniques for analyzing lubricating fluids. It will examine the role of lubrication in assessment and predictive maintenance. It will cover tribology (The science of friction, lubrication, and interacting surfaces in motion), chemical composition of lubricating fluids and different types of lubricating systems. Industrial machinery mechanics, Machinery maintenance workers, Oil and gas drill operators, petroleum engineers, and automotive specialty technicians use these skills in their occupations.

The Average Median Wage for Non-Destructive Testing Specialist in the Wichita Metro Area is $57,400