Power Engineering and Boiler Operator

WORKPLACE COMPETENCIES
Graduates will be able to:
• Define industry safety standards
• Explain operation of power engineering equipment
• Describe boiler operation effects on emission
• Describe water treatment fundamentals related to power engineering equipment
• Describe power engineering related to control fundamentals
• Identify firing methods for different fuel types

ADMISSION REQUIREMENTS
• High school diploma or GED
• Demonstration of proficiency in basic skills through a course placement assessment

This two-semester program prepares students to manage and repair equipment, to maintain facilities, and to operate and control low- and high-pressure boilers and auxiliary systems in factories, plants and buildings. Aptitudes that will contribute to your success in this field include a high mechanical aptitude, manual dexterity and good people skills.

Career Outlook
Program graduates have potential for employment as building engineers, boiler operators, facilities maintenance mechanics and power engineers.

You can earn the Boiler Operator certificate on your way to completing this diploma.

Start dates: August and January

TECHNICAL DIPLOMA Program Code: 30-428-1 | Oak Creek Campus
Power Engineering
and Boiler Operator Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWENG-330</td>
<td>Low-Pressure Boilers</td>
<td>1</td>
</tr>
<tr>
<td>POWENG-331</td>
<td>High-Pressure Boilers</td>
<td>2</td>
</tr>
<tr>
<td>POWENG-332</td>
<td>Boiler Operation</td>
<td>1</td>
</tr>
<tr>
<td>POWENG-395</td>
<td>Electricity for Power Engineering</td>
<td>3</td>
</tr>
<tr>
<td>POWENG-336</td>
<td>Math for Power Engineers</td>
<td>1</td>
</tr>
<tr>
<td>POWENG-333</td>
<td>Plant Maintenance and HVAC Basics</td>
<td>3</td>
</tr>
<tr>
<td>POWENG-334</td>
<td>Blueprint Reading for Power Engineering</td>
<td>1</td>
</tr>
<tr>
<td>POWENG-335</td>
<td>Instrumentation and Controls</td>
<td>3</td>
</tr>
<tr>
<td>SOCSCI-330</td>
<td>Applied Economics and Human Relations</td>
<td>1</td>
</tr>
<tr>
<td>ENG-345</td>
<td>Communications 1</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL CREDITS: 17**

^ Counts toward earning the Boiler Operator certificate.
Program curriculum requirements are subject to change.

Possible Careers
- Building Engineer
- Facilities Maintenance Mechanic
- Power Engineer

Related Programs
- Boiler Operator
- Machine Tool Operations

For complete information, go to matc.edu/tas/index.cfm
To apply for financial aid, visit fafsa.ed.gov
School Code: 003866

MATC is an Affirmative Action/Equal Opportunity Institution and complies with all requirements of the Americans With Disabilities Act. MATC is accredited by the Higher Learning Commission, Commission on Institutions of Higher Education, the national standard in accrediting colleges and schools for distinction in academics and student services. REV 2015/16

For more information:
matc.edu or 414-297-MATC
Wisconsin Relay System 711

Downtown
Milwaukee Campus
700 West State Street

Mequon Campus
5555 West Highland Road

Oak Creek Campus
6665 South Howell Avenue

West Allis Campus
1200 South 71st Street