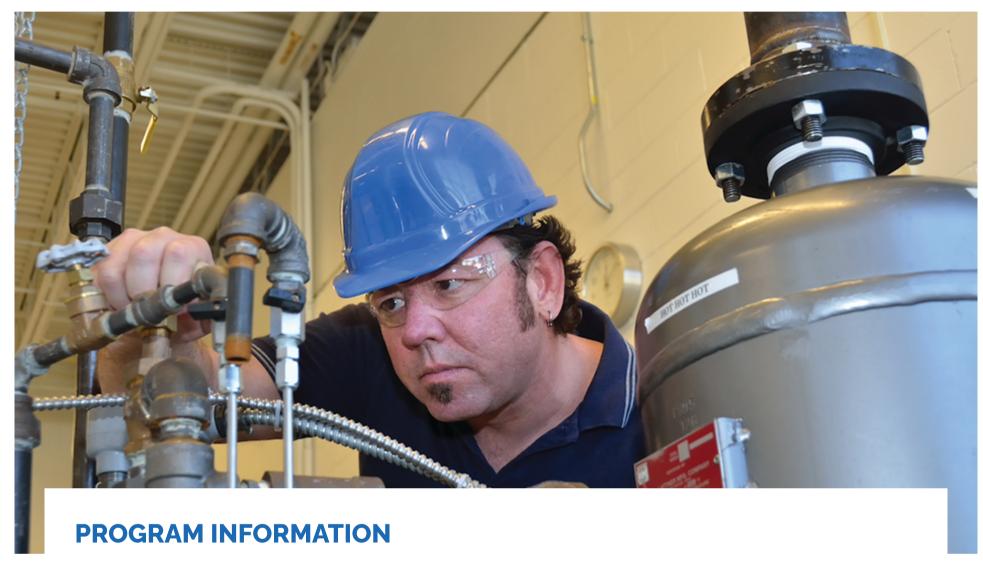




# POWER ENGINEERING AND BOILER OPERATOR

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#### In this section



**Location:** Oak Creek Campus

Pathway: Manufacturing, Construction &

Transportation

**Program Code: 30-428-1** 

Offering: In-class

Degree Type: Technical Diploma

**Start Dates:** August/January

### ABOUT THE POWER ENGINEERING AND BOILER OPERATOR DIPLOMA

#### **DESCRIPTION**

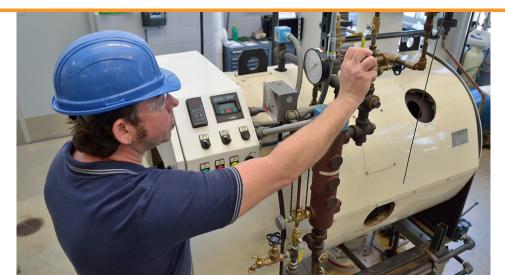
Learn how to manage and repair equipment, to maintain facilities, and to operate and control low-pressure and high-pressure boilers and auxiliary systems in factories, plants and buildings.

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 the way to completing this technical diploma.

**Additional program details:** Abilities that will contribute to your success in this field include a high mechanical aptitude, manual dexterity, and good communication skills.







## **BOILER OPERATOR**

Use your mechanical aptitude and prepare for employment as a boiler operator, facilities maintenance mechanic or power engineer through this certificate's coursework. At the workplace, job responsibilities typically include regulating equipment; ensuring that equipment operates safely and economically; and monitoring meters, gauges and computerized controls.

## **AUTOMATED BUILDING SYSTEMS**

Learn about emerging technologies and gain entry-level skills required for careers as technicians and specialists in building automations and controls. This industry encompasses a broad range of technologies used to efficiently control the electrical and mechanical systems in commercial, industrial and institutional buildings. Courses are taught in the Automated Building Systems (ABS) Lab.

## **DETAILED PROGRAM INFORMATION**

#### 2021-22 CURRICULUM

Course	Course Name	Credits
POWENG-330	Low-Pressure Boilers ^	1
POWENG-331	High-Pressure Boilers ^	2
POWENG-332	Boiler Operation ^	1
POWENG-334	Blueprint Reading for Power Engineering	1
POWENG-335	Instrumentation and Controls	3
POWENG-395	Electricity for Power Engineering	3
ABS-143	Electrical Concepts/Control Theory 1	2
ENG-340	Workplace Communication	2
POWENG-333	Plant Maintenance and HVAC Basics	3
POWENG-336	Math for Power Engineers	1
	TOTAL CREDITS	19



# Prerequisite required.

^ Counts toward earning the Boiler Operator certificate.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

To see course descriptions, class times and locations, visit the full course catalog (link).

Already a student? You can visit <u>Self-Service (link)</u> and choose Student Planning to register for classes.

#### **2021-2022 PROGRAM CARD**

View/print the program card: front (png) | back (png)

#### **IMPORTANT DATES**

Deadlines and important dates can be found on:

#### **Cost & Aid Deadlines**

Also, you can find dates and deadlines on the MATC Calendar

#### **PROGRAM OUTCOMES**

#### **Program Learning Outcomes**

- Follow industry safety standards
- Operate power engineering equipment
- Examine boiler operation effects on the environment
- Perform water treatment tests
- Operate building controls

## **CAREER OUTLOOK**

A graduate of this program will have potential for employment as a building engineer, boiler operator, facilities maintenance mechanic or power engineer.

Stationary engineers, boiler operators and power engineers start up, regulate and shut down equipment. They ensure that it operates safely, economically and within established limits by monitoring meters, gauges and computerized controls. They manually control equipment and when necessary, make adjustments. They also record relevant events and facts concerning operation and maintenance in an equipment log.

On steam boilers they observe, control and record steam pressure, temperature, water level and chemistry, power output, fuel consumption and emissions. They watch and listen to machinery and routinely check safety devices, identifying and correcting any problems that develop.

### **POSSIBLE CAREERS**

Building Engineer
Facilities Maintenance Mechanic
Power Plant Operator
Power Plant Mechanic
Heat Plant Operator





Learn about Scholarships available for this program here: <a href="https://matc.academicworks.com">https://matc.academicworks.com</a>
Use Search function to search for your program(s)

## **READY TO TAKE THE NEXT STEP?**

Use the buttons below to get more information, visit the college or apply now.

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**Apply Now** 

#### **QUESTIONS?**

Manufacturing, Construction & Transportation Academic & Career Pathway

414-297-8901 mctpathway@matc.edu

Last updated: 08/30/2021

#### CONTACT

700 W. State Street Milwaukee, WI 53233

#### **Virtual Services**

matc.edu/gethelp

(414) 297-MATC(6282) Toll Free: (800) 720-6282 Wisconsin Relay System 711

info@matc.edu

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