

Troy Boiler Works

invites you to join us for our current 2024 schedule



Boiler Training Course



This is a two-day boiler training course for anyone interested in learning about steam fundamentals, boilers, burners, combustion, boiler controls, steam system auxiliaries, and more.

Here is our current 2024 class schedule!

For more details and information on how to register for our courses, please click on the links below, call us at 518-274-2650, or email us at training@troyboilerworks.com.

Dates	Location	Click For More Info
March 27 & 28	Troy	Troy Class Registration (March)
May 14 & 15	Fishkill	Fishkill Class Registration
June 25 & 26	Rochester	Rochester Class Registration
July 30 & 31	Auburn	Auburn Class Registration
August 6 & 7	Buffalo	Buffalo Class Registration
August 13 & 14	Troy	Troy Class Registration (August)
September 10 & 11	Plattsburgh	Plattsburgh Class Registration

If you have an interest in scheduling a class for training operators at your facility, please call or email us. In addition to the regular course locations listed above, we can also conduct on-site with customized training sessions for your facility.



Learning more about the principles of flash steam and boiler blowdown heat recovery at our first class in August of 2018.



Learning about steam hammer at our Walkkill class in July 2020



Our 2020 Troy Class takes a break



Wrapping up the summer schedule in Plattsburgh, September 2020



Troy Boiler Works, Inc.
2800 7th Avenue
Troy, NY 12180
518-274-2650

About Our Course

We started this program in 2018 with the goal of providing high-quality training for boiler operators, supervisors, and maintenance personnel. The participants in our program have included staff from SUNY campuses, NYS DOCCS facilities, school districts, hospitals, paper mills, and manufacturing facilities throughout New York State. We are now entering our sixth year of this highly successful program with a total enrollment of over four hundred people who have attended at our multiple locations throughout New York.

Why should you take this course? We looked at the 2020 training class evaluations from over 80 attendees participating that year. Based on the feedback received, 100% of those respondents either agreed or strongly agreed that this training will be beneficial to them in the performance of their jobs.

Some quotes from our students –

- ❖ "I highly recommend other boiler operators to take this course."
- ❖ "The instructors were able to keep the course interesting and convey useful information."
- ❖ "Broad range of interesting topics covered. Easily understandable for all."
- ❖ "Loved this course."
- ❖ "Balanced, good depth on all aspects."
- ❖ "Excellent instructors, venue, and course content."
- ❖ "Very organized and good overview of all aspects of the boiler system as a whole."
- ❖ "Course was very thorough. Concepts and systems were explained well."
- ❖ "Great Course!"
- ❖ "I really enjoyed the training. Thank You Troy Boiler!!"

Download our Training Brochure

Course Content Description

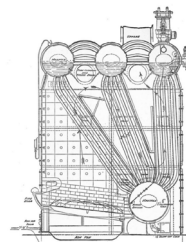
- Fundamentals of Steam
- Fundamentals of Combustion
- Boiler Types & Construction
- Burner Types & Construction
- High Temp Hot Water Generators
- Boiler Operating Procedures
- Boiler Safety Systems
- Deaerator & Feedwater Systems
- Water Treatment Principles
- Burner Systems & Controls
- ASME & NFPA Boiler Codes



Controls



Operations



Boiler Design & Construction



Boiler Safety & Codes

Temp. (°F)	Temp. (°C)	Pressure (psia)	Pressure (bar)	Specific Volume (ft ³ /lb)	Specific Volume (m ³ /kg)	Enthalpy (Btu/lb)	Enthalpy (kJ/kg)	Entropy (Btu/lb-R)	Entropy (kJ/kg-K)
212	100	14.7	1.013	26.8	1.673	1077.4	419.1	1.888	0.815
220	104.4	16.1	1.113	25.3	1.591	1081.1	422.4	1.892	0.819
230	109.9	17.8	1.235	24.1	1.521	1085.4	425.8	1.896	0.823
240	115.6	19.7	1.371	23.1	1.461	1090.3	429.5	1.900	0.827
250	121.1	21.8	1.521	22.3	1.410	1095.8	433.4	1.904	0.831
260	126.7	24.1	1.685	21.6	1.367	1101.9	437.6	1.908	0.835
270	132.3	26.6	1.864	21.1	1.331	1108.6	442.1	1.912	0.839
280	137.9	29.3	2.058	20.7	1.300	1115.9	446.9	1.916	0.843
290	143.6	32.2	2.270	20.4	1.273	1123.8	452.0	1.920	0.847
300	149.3	35.3	2.500	20.1	1.250	1132.3	457.4	1.924	0.851
310	155.1	38.6	2.759	19.9	1.230	1141.4	463.1	1.928	0.855
320	160.9	42.1	3.048	19.7	1.212	1151.2	469.1	1.932	0.859
330	166.8	45.8	3.368	19.6	1.196	1161.7	475.4	1.936	0.863
340	172.7	49.7	3.720	19.5	1.182	1172.9	482.0	1.940	0.867
350	178.7	53.8	4.105	19.4	1.170	1184.8	488.9	1.944	0.871
360	184.8	58.1	4.524	19.3	1.160	1197.4	496.1	1.948	0.875
370	190.9	62.6	4.978	19.3	1.151	1210.7	503.6	1.952	0.879
380	197.1	67.3	5.468	19.2	1.144	1224.7	511.4	1.956	0.883
390	203.3	72.2	6.000	19.2	1.138	1239.4	519.5	1.960	0.887
400	209.6	77.3	6.575	19.1	1.134	1254.8	527.9	1.964	0.891
410	215.9	82.6	7.200	19.1	1.130	1270.9	536.6	1.968	0.895
420	222.3	88.1	7.875	19.1	1.127	1287.7	545.6	1.972	0.899
430	228.7	93.8	8.600	19.0	1.125	1305.2	554.9	1.976	0.903
440	235.2	99.7	9.375	19.0	1.123	1323.4	564.5	1.980	0.907
450	241.8	105.8	10.200	19.0	1.122	1342.3	574.4	1.984	0.911
460	248.4	112.1	11.075	18.9	1.121	1361.9	584.6	1.988	0.915
470	255.1	118.6	12.000	18.9	1.120	1382.2	595.1	1.992	0.919
480	261.8	125.3	13.000	18.9	1.120	1403.2	605.9	1.996	0.923
490	268.6	132.2	14.075	18.8	1.119	1424.9	617.0	1.999	0.927
500	275.5	139.3	15.200	18.8	1.119	1447.3	628.4	2.003	0.931
510	282.5	146.6	16.375	18.8	1.118	1470.4	640.1	2.007	0.935
520	289.6	154.1	17.600	18.7	1.118	1494.2	652.1	2.011	0.939
530	296.8	161.8	18.900	18.7	1.117	1518.7	664.4	2.015	0.943
540	304.1	169.7	20.275	18.7	1.117	1543.9	677.0	2.019	0.947
550	311.5	177.9	21.700	18.6	1.116	1569.8	690.0	2.023	0.951
560	319.0	186.3	23.200	18.6	1.116	1596.4	703.3	2.027	0.955
570	326.6	195.0	24.775	18.6	1.115	1623.7	717.0	2.031	0.959
580	334.3	203.9	26.400	18.5	1.115	1651.7	731.1	2.035	0.963
590	342.1	213.1	28.075	18.5	1.114	1680.4	745.6	2.039	0.967
600	350.0	222.6	29.800	18.5	1.114	1709.8	760.5	2.043	0.971
610	358.0	232.3	31.575	18.4	1.113	1740.0	775.8	2.047	0.975
620	366.1	242.3	33.400	18.4	1.113	1770.9	791.5	2.051	0.979
630	374.3	252.5	35.275	18.4	1.112	1802.6	807.6	2.055	0.983
640	382.6	262.9	37.200	18.3	1.112	1835.1	824.1	2.059	0.987
650	391.0	273.5	39.175	18.3	1.111	1868.4	841.0	2.063	0.991
660	399.5	284.3	41.200	18.3	1.111	1902.5	858.3	2.067	0.995
670	408.1	295.3	43.275	18.2	1.110	1937.4	876.0	2.071	0.999
680	416.8	306.5	45.400	18.2	1.110	1973.1	894.1	2.075	1.003
690	425.6	317.9	47.575	18.2	1.109	2009.6	912.6	2.079	1.007
700	434.5	329.5	49.800	18.1	1.109	2046.9	931.5	2.083	1.011
710	443.5	341.3	52.075	18.1	1.108	2085.0	950.8	2.087	1.015
720	452.6	353.3	54.400	18.1	1.108	2123.9	970.5	2.091	1.019
730	461.8	365.5	56.775	18.0	1.107	2163.6	990.6	2.095	1.023
740	471.1	377.9	59.200	18.0	1.107	2204.1	1011.1	2.099	1.027
750	480.5	390.5	61.675	18.0	1.106	2245.4	1032.0	2.103	1.031
760	490.0	403.3	64.200	17.9	1.106	2287.5	1053.3	2.107	1.035
770	499.6	416.3	66.775	17.9	1.105	2330.4	1075.0	2.111	1.039
780	509.3	429.5	69.400	17.9	1.105	2374.1	1097.1	2.115	1.043
790	519.1	442.9	72.075	17.8	1.104	2418.6	1119.6	2.119	1.047
800	529.0	456.5	74.800	17.8	1.104	2463.9	1142.5	2.123	1.051
810	539.0	470.3	77.575	17.8	1.103	2510.0	1165.8	2.127	1.055
820	549.1	484.3	80.400	17.7	1.103	2556.9	1189.5	2.131	1.059
830	559.3	498.5	83.275	17.7	1.102	2604.6	1213.6	2.135	1.063
840	569.6	512.9	86.200	17.7	1.102	2653.1	1238.1	2.139	1.067
850	580.0	527.5	89.175	17.6	1.101	2702.4	1263.0	2.143	1.071
860	590.5	542.3	92.200	17.6	1.101	2752.5	1288.3	2.147	1.075
870	601.1	557.3	95.275	17.6	1.100	2803.4	1314.0	2.151	1.079
880	611.8	572.5	98.400	17.5	1.100	2855.1	1340.1	2.155	1.083
890	622.6	587.9	101.575	17.5	1.099	2907.6	1366.6	2.159	1.087
900	633.5	603.5	104.800	17.5	1.099	2960.9	1393.5	2.163	1.091
910	644.5	619.3	108.075	17.4	1.098	3015.0	1420.8	2.167	1.095
920	655.6	635.3	111.400	17.4	1.098	3070.0	1448.5	2.171	1.099
930	666.8	651.5	114.775	17.4	1.097	3125.8	1476.6	2.175	1.103
940	678.1	667.9	118.200	17.3	1.097	3182.4	1505.1	2.179	1.107
950	689.5	684.5	121.675	17.3	1.096	3239.8	1534.0	2.183	1.111
960	701.0	701.3	125.200	17.3	1.096	3298.0	1563.3	2.187	1.115
970	712.6	718.3	128.775	17.2	1.095	3357.0	1593.0	2.191	1.119
980	724.3	735.5	132.400	17.2	1.095	3416.8	1623.1	2.195	1.123
990	736.1	752.9	136.075	17.2	1.094	3477.4	1653.6	2.199	1.127
1000	748.0	770.5	139.800	17.1	1.094	3538.8	1684.5	2.203	1.131

Fundamentals of Steam

To learn more about Troy Boiler Works and our capabilities, visit our website at www.troyboilerworks.com