

Troy Boiler Works

invites you to join us for our current 2022 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 2022 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
April 19 & 20	Troy	Troy Class Registration (April)
May 17 & 18	Rochester	Rochester Class Registration
June 7 & 8	Plattsburgh	Plattsburgh Class Registration
June 21 & 22	Auburn	Auburn Class Registration
July 12 & 13	Watertown	Watertown Class Registration
August 16 & 17	Troy	Troy Class Registration (August)

Additional classes are being planned for the New Paltz/Fishkill and Elmira/Ithaca/Binghamton areas.



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

Our advanced level controls course is also in the works!

We plan on rolling this out shortly to provide more advanced level training on burner management and combustion control system topics. If you are interested in more detail for this course, please contact us at training@troyboilerworks.com.

Dates	Location	Click For More Info
To Be Determined	Troy, NY	Additional Detail Pending



Learning about steam hammer at our Walkkill class in July 2020



Wrapping up the summer schedule in Plattsburgh, September 2020



Our 2020 Troy Class takes a break



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 fourth year of this highly successful program and have expanded to add new classes at multiple locations throughout New York State.

Why should you take this course? We looked at the 2020 training class evaluations from over 80 attendees participating this 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

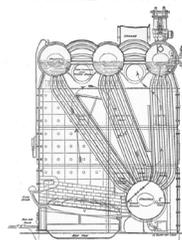
- Fundamentals of Steam
- Fundamentals of Combustion
- Boiler Types & Construction
- Burner Types & Construction
- High Temp Hot Water Generators
- Boiler Operating Procedures
- Boiler Safety Systems
- Deaerator & Feedwater Systems
- Water Treatment Principles
- Burner Systems & Controls
- ASME & NFPA 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	900	419	1.000	1.307
220	105	15.5	1.070	26.1	1.610	910	424	1.005	1.312
230	110	16.5	1.135	25.3	1.558	920	429	1.010	1.317
240	116	17.7	1.210	24.5	1.507	930	434	1.015	1.322
250	121	19.0	1.295	23.7	1.457	940	439	1.020	1.327
260	127	20.5	1.390	22.9	1.408	950	444	1.025	1.332
270	133	22.2	1.495	22.1	1.360	960	449	1.030	1.337
280	139	24.0	1.610	21.3	1.313	970	454	1.035	1.342
290	145	26.0	1.735	20.5	1.267	980	459	1.040	1.347
300	151	28.1	1.870	19.7	1.222	990	464	1.045	1.352
310	156	30.4	2.015	18.9	1.178	1000	469	1.050	1.357
320	162	32.9	2.170	18.1	1.135	1010	474	1.055	1.362
330	168	35.6	2.335	17.3	1.093	1020	479	1.060	1.367
340	174	38.5	2.510	16.5	1.052	1030	484	1.065	1.372
350	180	41.6	2.695	15.7	1.012	1040	489	1.070	1.377
360	186	44.9	2.890	14.9	0.973	1050	494	1.075	1.382
370	192	48.4	3.095	14.1	0.935	1060	499	1.080	1.387
380	198	52.1	3.310	13.3	0.898	1070	504	1.085	1.392
390	204	56.0	3.535	12.5	0.862	1080	509	1.090	1.397
400	210	60.1	3.770	11.7	0.827	1090	514	1.095	1.402
410	216	64.4	4.015	10.9	0.793	1100	519	1.100	1.407
420	222	68.9	4.270	10.1	0.760	1110	524	1.105	1.412
430	228	73.7	4.535	9.3	0.728	1120	529	1.110	1.417
440	234	78.7	4.810	8.5	0.697	1130	534	1.115	1.422
450	240	84.0	5.095	7.7	0.667	1140	539	1.120	1.427
460	246	89.6	5.390	6.9	0.638	1150	544	1.125	1.432
470	252	95.4	5.695	6.1	0.610	1160	549	1.130	1.437
480	258	101.5	6.010	5.3	0.583	1170	554	1.135	1.442
490	264	107.9	6.335	4.5	0.557	1180	559	1.140	1.447
500	270	114.7	6.670	3.7	0.532	1190	564	1.145	1.452
510	276	121.8	7.015	2.9	0.508	1200	569	1.150	1.457
520	282	129.2	7.370	2.1	0.485	1210	574	1.155	1.462
530	288	136.9	7.735	1.3	0.463	1220	579	1.160	1.467
540	294	144.9	8.110	0.5	0.442	1230	584	1.165	1.472
550	300	153.2	8.495	0.3	0.422	1240	589	1.170	1.477
560	306	161.8	8.890	0.2	0.403	1250	594	1.175	1.482
570	312	170.7	9.295	0.1	0.385	1260	599	1.180	1.487
580	318	180.0	9.710	0.0	0.368	1270	604	1.185	1.492
590	324	189.6	10.135	0.0	0.352	1280	609	1.190	1.497
600	330	199.6	10.570	0.0	0.337	1290	614	1.195	1.502
610	336	210.0	11.015	0.0	0.323	1300	619	1.200	1.507
620	342	220.8	11.470	0.0	0.310	1310	624	1.205	1.512
630	348	232.0	11.935	0.0	0.297	1320	629	1.210	1.517
640	354	243.6	12.410	0.0	0.285	1330	634	1.215	1.522
650	360	255.6	12.895	0.0	0.274	1340	639	1.220	1.527
660	366	268.0	13.390	0.0	0.264	1350	644	1.225	1.532
670	372	280.8	13.895	0.0	0.255	1360	649	1.230	1.537
680	378	294.0	14.410	0.0	0.246	1370	654	1.235	1.542
690	384	307.6	14.935	0.0	0.238	1380	659	1.240	1.547
700	390	321.6	15.470	0.0	0.231	1390	664	1.245	1.552
710	396	336.0	16.015	0.0	0.225	1400	669	1.250	1.557
720	402	350.8	16.570	0.0	0.219	1410	674	1.255	1.562
730	408	366.0	17.135	0.0	0.214	1420	679	1.260	1.567
740	414	381.6	17.710	0.0	0.209	1430	684	1.265	1.572
750	420	397.6	18.295	0.0	0.205	1440	689	1.270	1.577
760	426	414.0	18.890	0.0	0.201	1450	694	1.275	1.582
770	432	430.8	19.495	0.0	0.197	1460	699	1.280	1.587
780	438	448.0	20.110	0.0	0.194	1470	704	1.285	1.592
790	444	465.6	20.735	0.0	0.191	1480	709	1.290	1.597
800	450	483.6	21.370	0.0	0.188	1490	714	1.295	1.602
810	456	502.0	22.015	0.0	0.186	1500	719	1.300	1.607
820	462	520.8	22.670	0.0	0.184	1510	724	1.305	1.612
830	468	540.0	23.335	0.0	0.182	1520	729	1.310	1.617
840	474	559.6	24.010	0.0	0.181	1530	734	1.315	1.622
850	480	579.6	24.695	0.0	0.180	1540	739	1.320	1.627
860	486	599.9	25.390	0.0	0.179	1550	744	1.325	1.632
870	492	620.5	26.095	0.0	0.178	1560	749	1.330	1.637
880	498	641.4	26.810	0.0	0.178	1570	754	1.335	1.642
890	504	662.6	27.535	0.0	0.177	1580	759	1.340	1.647
900	510	684.0	28.270	0.0	0.177	1590	764	1.345	1.652
910	516	705.6	29.015	0.0	0.177	1600	769	1.350	1.657
920	522	727.4	29.770	0.0	0.177	1610	774	1.355	1.662
930	528	749.4	30.535	0.0	0.177	1620	779	1.360	1.667
940	534	771.6	31.310	0.0	0.177	1630	784	1.365	1.672
950	540	794.0	32.095	0.0	0.177	1640	789	1.370	1.677
960	546	816.6	32.890	0.0	0.177	1650	794	1.375	1.682
970	552	839.4	33.695	0.0	0.177	1660	799	1.380	1.687
980	558	862.4	34.510	0.0	0.177	1670	804	1.385	1.692
990	564	885.6	35.335	0.0	0.177	1680	809	1.390	1.697
1000	570	909.0	36.170	0.0	0.177	1690	814	1.395	1.702

Fundamentals of Steam

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