



## HBA TRAINING COURSES

Are Your Bolting Practices Putting Your Team at Risk?

Untrained teams can lead to rework, outages, and failures, jeopardizing safety and efficiency. The **HYTORC Bolting Academy** (HBA) can equip your team with the skills they need to master safe and precise bolting. Empower your workforce to handle any bolting challenge.

Just *one* injury can cost more than training your entire crew. Prioritizing training can help avoid these costly mistakes. Without proper education, your team risks accidents, inefficiencies, quality and compliance issues.

HYTORC partners with ASME and TEEK/OSHA to offer certificates from these widely recognized organizations, maximizing the educational value of each class.

### SOME OF THE BENEFITS OF HAVING A TRAINED TEAM:



**Increased Safety:** Proper training minimizes the risk of accidents and injuries.



**Operational Excellence:** Trained teams contribute to smoother, more reliable operations, less rework and downtime, and shortened outages.



**Regulatory Compliance:** Ensure adherence to industry standards and regulations.



**Enhanced Efficiency:** Trained workers complete tasks faster and with greater precision and higher quality.



**Cost Savings:** Reduce the likelihood of costly errors and downtime due to rework and unplanned maintenance.

### BASIC COURSES

LEVEL	SERIES	COURSE TITLE	COURSE NUMBER	PDH (HOURS)	IN-PERSON	ONLINE	CERTIFICATE
ENTRY	TOOL TRAINING	<b>Participant requires no previous experience; gains general familiarization with industrial bolting.</b>					
		General Tool Overview	HBI-TT-GENERAL	1	X	X	HBA
		Hydraulic Wrench & Pump Overview	HBI-TT-HYDRAULIC	1	X	X	HBA
		Electric Tool Overview	HBI-TT-ELECTRIC	1	X	X	HBA
		Pneumatic Tool Overview	HBI-TT-PNEUMATIC	1	X	X	HBA
		Manual Wrench Overview	HBI-TT-MANUAL	1	X	X	HBA
		Fastener Overview	HBI-TT-FASTENER	1	X	X	HBA
		Tensioner Overview	HBI-TT-TENSIONER	1	X	X	HBA
		Hydraulic Wrench & Pump Operation	HBI-TT-HYDOPS	4	X	X	HBA
		Electric Tool Operation	HBI-TT-ETOPS	4	X	X	HBA
		Connect App	HBI-TT-CONNECT	4	X	X	HBA
		Bolting Manager	HBI-TT-BOLTMAN	4	X	X	HBA
		Pneumatic Tool Operation	HBI-TT-PNEOPS	4	X	X	HBA
		Manual Wrench Operation	HBI-TT-MANOPS	4	X	X	HBA
		Tensioner Operation	HBI-TT-TENOPS	4	X	X	HBA
		Repair Training / Soldering Cert	HBI-TT-REPAIR		X	X	HBA
B	BASIC BOLTER	<b>No experience required. Gain general familiarization with industrial bolting.</b>					
		Basic Bolting Overview	HBI-ASME-GP555	4	X	X	ASME
			HBI-BB-OVERVIEW	4	X	X	HBA
		Bolting Basics	HBI-ASME-GP556	1	X	X	ASME
			HBI-BB-BASICS	1	X	X	HBA
		Bolting Safety Basics	HBI-ASME-GP557	1	X	X	ASME
			HBI-BB-SAFETY	1	X	X	HBA
		Bolting Tool Basics	HBI-ASME-GP558	2	X	X	ASME
			HBI-BB-TOOL	2	X	X	HBA
		Bolting Fastener Basics	HBI-ASME-GP559	1	X	X	ASME
			HBI-BB-FAST	1	X	X	HBA
Bolting Tensioner Basics	HBI-ASME-GP560	1	X	X	ASME		
	HBI-BB-TEN	1	X	X	HBA		

**EQUIP YOUR TEAM WITH THE BEST TRAINING IN THE INDUSTRY**



- Custom in-person/online training available.
- Courses updated to PCC-1 2022 standard.
- Certificate courses.
- Certified instructors.
- Flexible scheduling.

## ADVANCED COURSES:

LEVEL	SERIES	COURSE TITLE	COURSE NUMBER	PDH (HOURS)	IN-PERSON	ONLINE	CERTIFICATE	
1	ASSISTANT BOLTING ASSEMBLER	No bolting experience is required. Introduction to bolting principles, bolting safety, tool operation & practice. Gains understanding sufficient for independent responsibility of joint assembly and inspection.						
		Safe Bolting Introduction	HBI-ASME-GP561	4	X	X	ASME	
			HBI-SB-Intro	4	X	X	HBA	
		Introduction to Safe Bolting	HBI-SAF-702	4	X	X	TEEX	
		<b>SAFE BOLTING</b>						
		Pressure Vessel & Piping	HBI-ASME-GP562	8	X		ASME	
			HBI-SB-PV	8	X		HBA	
		Structural	HBI-ASME-GP563	8	X		ASME	
			HBI-SB-SC	8	X		HBA	
		Mechanical	HBI-ASME-GP564	8	X		ASME	
			HBI-SB-MC	8	X		HBA	
		Safe Bolting Principles & Practice	HBI-OSHA-7110	8	X		OSHA	
			HBI-SAF-701	8	X		TEEX	
		<b>TIRE &amp; WHEEL SERVICE TRAINING</b>						
Commercial	HBI-SB-COMW	8	X		HBA			
Industrial	HBI-SB-INDW	8	X		HBA			
2	BOLTING ASSEMBLER / INSPECTOR	Safe Bolting experience preferred. Bolting fundamentals, inspection, and safe operation of bolting tools sufficient for independent responsibility of joint assembly and inspection.						
		Bolted Joint Integrity	HBI-ASME-GP582	16	X		ASME	
			HBI-BA-INTEGRITY	16	X		HBA	
		Fundamentals of Bolting Assembly	HBI-ASME-GP566	8	X		ASME	
			HBI-BA-FUN	8	X		HBA	
		<b>BOLTING ASSEMBLY</b>						
		Power Equipment	HBI-ASME-GP567	8	X		ASME	
			HBI-BA-PWR	8	X		HBA	
		Torque Equipment	HBI-ASME-GP568	8	X		ASME	
			HBI-BA-TQ	8	X		HBA	
Tension Equipment	HBI-ASME-GP569	8	X		ASME			
	HBI-BA-TN	8	X		HBA			
3	BOLTING SUPERVISOR / TRAINER	Bolted Joint Integrity prerequisite required. Key elements of lower level courses. Gain an understanding of inspection elements, or classroom delivery best practices.						
		Bolting Trainer Basics	HBI-ASME-GP570	4	X	X	ASME	
			HBI-BT-BASIC	4	X	X	HBA	
		Bolting Trainer	HBI-ASME-GP571	8	X		ASME	
			HBI-BT-TRAINER	8	X		HBA	
		Bolting Supervisor	HBI-ASME-GP572	8	X		ASME	
	HBI-BT-SUPER	8	X		HBA			
4	BOLTING SME	Safe Bolting experience preferred. Gain understanding sufficient to develop bolting methods and procedures.						
		Bolting SME - Piping	HBI-ASME-GP573	8	X		ASME	
			HBI-BE-PIPE	8	X		HBA	
		Bolting SME - Heat Exchanger	HBI-ASME-GP574	8	X		ASME	
			HBI-BE-HE	8	X		HBA	
		Bolting SME - Special Joints	HBI-ASME-GP575	8	X		ASME	
			HBI-BE-SJ	8	X		HBA	
Bolting SME - Engineering	HBI-ASME-GP576	8	X		ASME			
	HBI-BE-ENG	8	X		HBA			
Bolted Joint Assembly Principles per ASME PCC-1 2022	HBI-ASME-GP580	15	X	X	ASME			

**INDUSTRY. ENROLL TODAY AT [HYTORC.COM/TRAINING](https://www.hytorc.com/training)**

# JOE PAUL CENTER FOR BOLTING EXCELLENCE

A 6,000 Square-Foot Learning Space



The **Joe Paul Center for Bolting Excellence** is a 6,000 square-foot hands-on learning space at HYTORC Headquarters in Mahwah, NJ. Our goal is to promote safe bolting practices through hands-on training with real tools and techniques for bolters of all skill levels.

- Bolting Training Room
- Repair Training Room
- Calibration Training Room
- 2 State-Of-The-Art Classrooms

## INVEST IN TRAINING. AVOID COSTLY STATISTICS.

Investing in professional training can lead to significant cost savings since workplace injuries can be a substantial financial burden to any organization.\* The average monetary costs for a company are costly.

<b>1 FRACTURE</b> <b>+\$115K</b>	<b>1 CRUSH INJURY</b> <b>+\$140K</b>	<b>1 AMPUTATION</b> <b>+\$200K</b>	Over 80% of manufacturing firms have experienced unplanned downtime in the last 3 years, with an average cost of <b>\$260,000 per hour.**</b>
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\*Source: Estimated Costs of Occupational Injuries and Illnesses and Estimated Impact on a Company's Profitability Worksheet, Occupational Safety and Health Administration (2024).

\*\*<https://quickbooks.intuit.com/r/midsize-business/planned-manufacturing-shutdown-savings>

**DON'T LEAVE SAFETY AND SUCCESS TO CHANCE.  
SECURE YOUR SPOT AT THE HYTORC BOLTING ACADEMY TODAY!**

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