

ASME-QUALIFIED BOLTING SPECIALIST (AQBS)

The AQBS Program qualifies bolting personnel based on criteria in ASME PCC-1 Guidelines for Pressure Boundary Bolted Flange Joint Assembly. The training exposes participants to the very latest bolting tools, fixtures, instruments, materials and standard ANSI/ASME* flanges configured to train personnel according best current practices. HYTORC makes all of the tools, flanges and accessories used in this training program available as kits to those interested in training at their own facility and/or with their own instructors.

AQBS FLANGE KITS

The AQBS Flange Kit provides a complete solution for training on standard ANSI/ASME flanges according to ASME PCC-1-2013. The kit (pictured to the right) offers a compact and mobile test fixture with multiple flanges for flexible and comprehensive instruction. The flange kit provides the following training configurations:

- (2) ANSI/ASME Class 600 Flanges, raised face, 16 holes for 1-1/4" bolts, used for assembly with spiral wound gasket
- (1) ANSI/ASME Class 300 Flange, raised face, 12 holes for 3/4" bolts, used for assembly with spiral wound gaskets
- (1) Rectangular flange, 4 holes for 1-1/2" bolts,
- Mounting for Skidmore Torque-Load measurement
- Mounting for Norbar Torque verification instruments
- Mounting space for other test instruments

This kit is used for training on Hydraulic, Pneumatic, Electronic and Manual Torque Tools, Mechanical and Hydraulic Tensioning and Gasket Sealing.



Model Number	Description	Usage
AQBS-FK1D	Flange Kit	Equipped with integrated davit arm to position flanges

AQBS ACCESSORIES KITS

HYTORC provides a full range of accessories for use with the AQBS flange kit and associated AQBS training tools, procedures and courses.

Model Number	Description	Usage
AQBS-BK1A	Bolt Kit	Kit contains all nuts and bolts for assembling the AQBS flange kit in these sizes: 1-1/4", 3/4", and 1-1/2"
AQBS-SKID1A	Skidmore Test Unit	(1) Skidmore Test Unit for Torque-Load exercises
AQBS-SKID-GK	Skidmore Gasket Kit	(1) Compression Plate, (8) PTFE Gaskets, (8) Hochdruck Gaskets
AQBS-SKID-FK	Skidmore Fastener Kit	(50) 3/8" Fasteners, Bolts, Nuts, Washers
AQBS-TC1A	Norbar Test Unit	Torque Check Plus - Torque-load verification unit
AQBS-GK1A	Gasket Identification Kit	Sample of 11 most commonly used gaskets.

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AQBS TOOL KIT



The AQBS Tool kit is configured to provide all of the following tools and materials that will allow training centers or organizations to quickly conduct training to the ASME* Qualified Bolting Specialist criteria in PCC-1-2013.

- (2) Manual torque wrenches
- Assorted manual tools and measurement instruments used in the course of training exercises
- (4) STEALTH® Hydraulic Torque Wrenches
- (1) ICE® Hydraulic Torque Wrench with drives for standard torque and mechanical tensioning
- (1) HY-115 Hydraulic pump, oil, and hoses
- (1) jGun® Pneumatic Torque Tool and Filter Regulator Lubricator for pneumatic torque exercises
- (1) LITHIUM SERIES® Electric Torque Tool
- (1) Hydraulic Tensioner air-driven pump & hoses
- (8) Hydraulic Tensioners and hoses
- (1) Manual Hydraulic Tensioning pump
- (1) Skidmore Unit, initial fasteners and gaskets
- (1) Norbar Unit
- (20) HYTORC Reaction washers and (20) Back washers
- (1) HYTORC Nut & Driver for mechanical tensioning
- (3) Spiral Wound Gaskets for Sealing
- (11) Different gaskets for gasket training
- Lubrication and cleaning materials
- All tool sockets, drivers and accessories to carry out the training exercises
- Personal Protective Equipment (PPE), gloves, glasses, ear protection, hard hats, etc.

Model Number	Description	Usage
AQBS-TK1A	Tool Kit	KNAACK Box containing a complete set of bolting tools, Instruments and initial materials for conducting training on bolting operations with the AQBS flange.

HYTORC BOLTING INSTITUTE (HBI)

HBI offers training for all those engaged in industrial bolting to improve safety, quality and efficiency of bolting operations. HBI regularly conducts training classes for a variety of personnel including technicians, supervisors, managers and engineers, delivering both HYTORC classes and industry-standard ASME* and OSHA* certificate programs. HYTORC also supports organizations implementing their own training programs. To get in touch with a certified HBI instructor, email us at: training@hytorc.com.

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