

BOLTING TRAINING

Becoming an ASME

“Qualified Bolting Specialist”

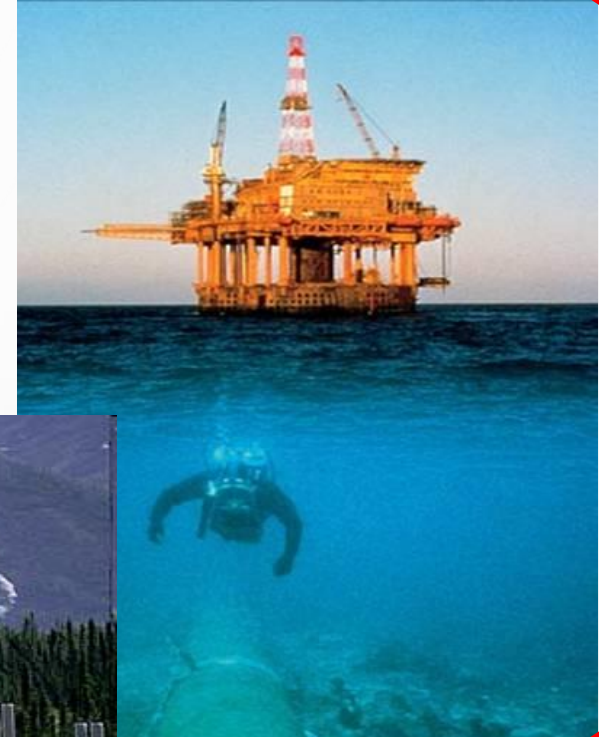
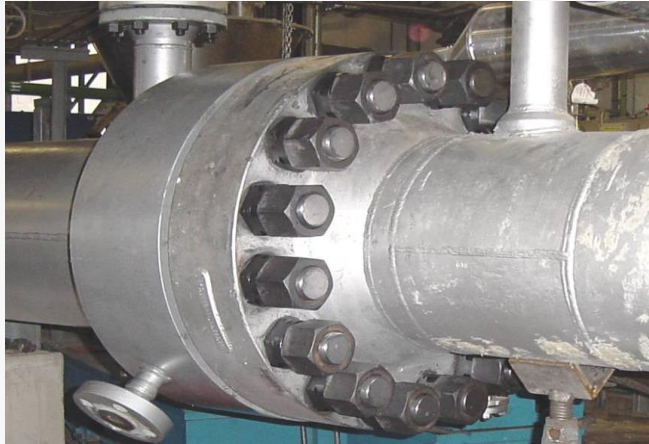
David Lay



4/28/2020
09:00 AM & 16:00 PM Eastern

BOLTED JOINTS ARE **EVERYWHERE** IN INDUSTRY!

HYTORC[®]
Since 1968

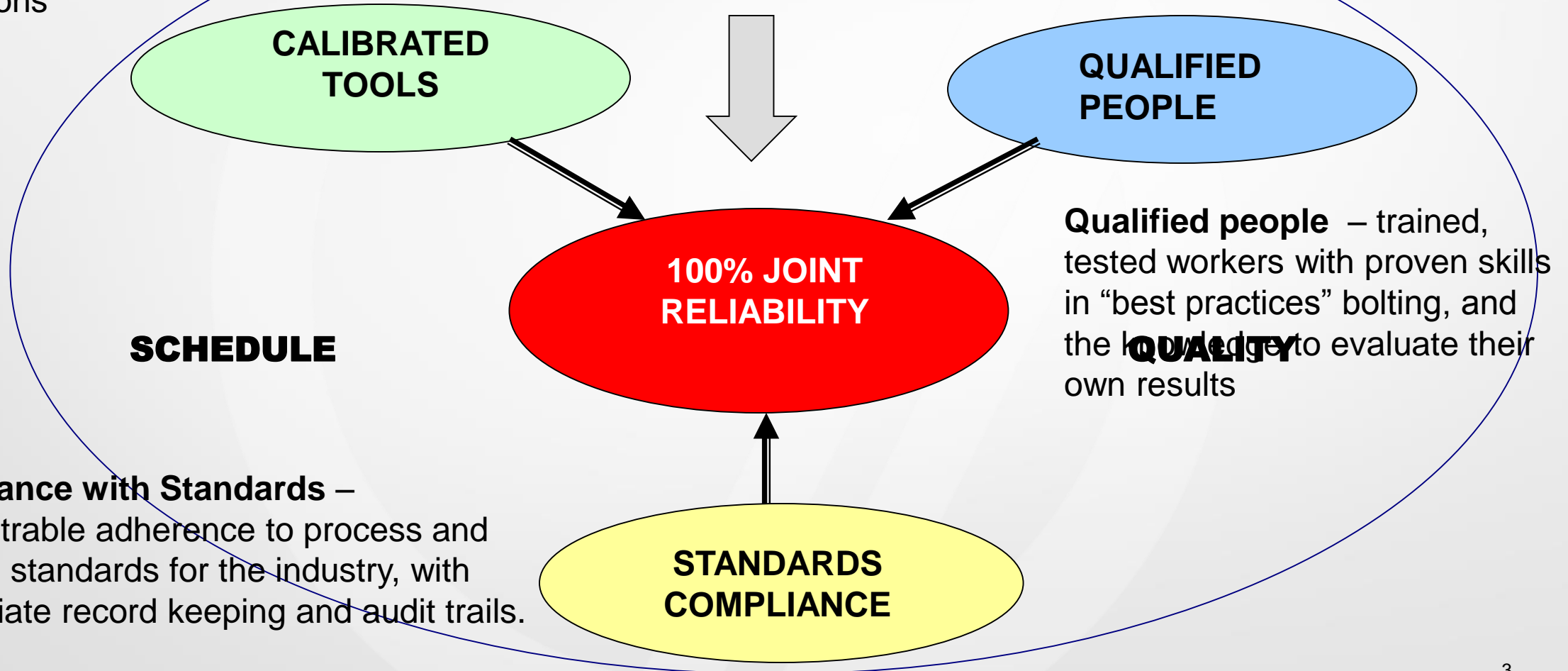


Calibrated tools – the finest state of the art equipment that will consistently deliver measurable and verifiable results under all conditions

NO MATTER WHAT THE EQUIPMENT OR THE SITUATION

SAFETY

THE GOAL OF EVERY INDUSTRIAL BOLTING JOB IS...



Compliance with Standards – demonstrable adherence to process and material standards for the industry, with appropriate record keeping and audit trails.

**QUALIFIED
PEOPLE**

**The door to bolted joint
reliability cannot be kicked
open by brute force!**



IT MUST BE OPENED WITH A KEY!



- ***TRAINING IN THE WORKPLACE IMPROVES BOTH THE JOB AND THE PEOPLE***
- ***QUALITY, EFFICIENCY, SAFETY AND WORKER SATISFACTION ALL IMPROVE***

EDUCATION BENEFITS EVERYTHING IT TOUCHES

FOR 50 YEARS WE HAVE ALL AGREED...



WE NEED A TRAINED CERTIFIED WORKER TO WELD THIS JOINT!



WELDED JOINT

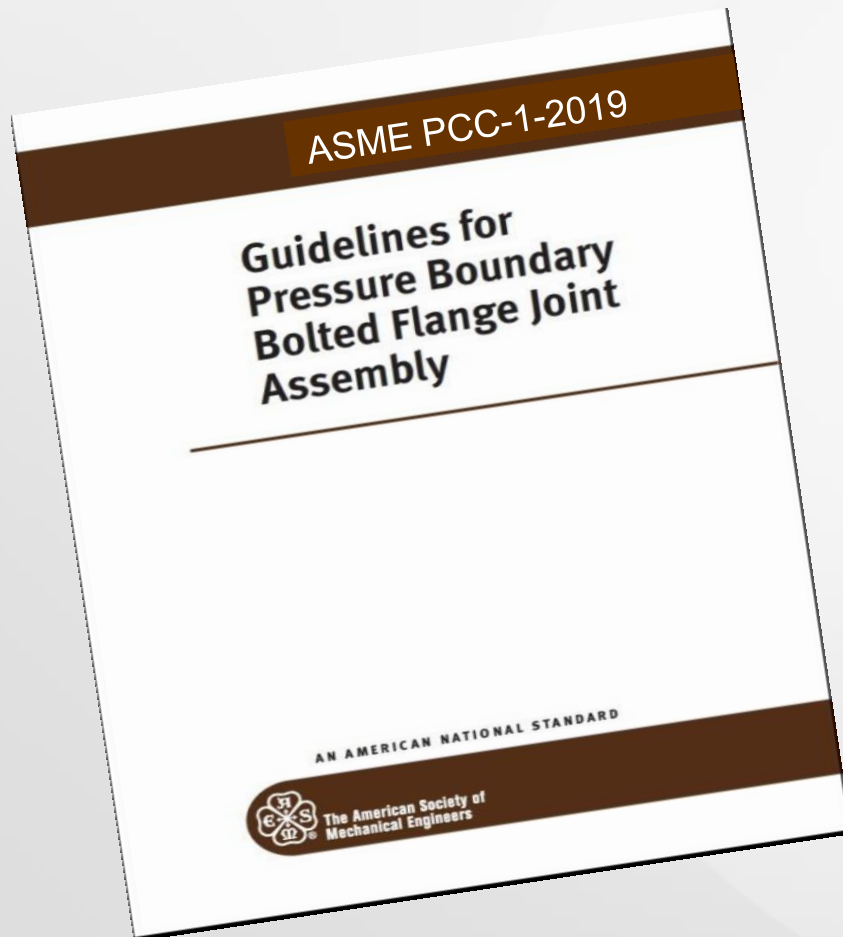


WHY DO WE REQUIRE NO TRAINING OR CREDENTIAL
TO ASSEMBLE THIS COMPLEX BOLTED JOINT? ...



WHICH IS MORE LIKELY TO LEAK?

STANDARD FOR INDUSTRIAL BOLTED JOINT ASSEMBLY ASME PCC-1-2019



- PCC = POST CONSTRUCTION COMMITTEE (MAINTENANCE)
- EDITIONS SINCE 2000, 2010, 2013 AND NOW 2019
- WRITTEN AS A “GUIDELINE”
- ACCEPTED AS THE STANDARD
- 100 PAGES OF “BEST PRACTICES” BOLTING
 - SAFETY – QUALITY – SCHEDULE
- **SINCE 2010 QUALIFIED ASSEMBLER TRAINING – APPENDIX A**

Appendix A – what does it do?

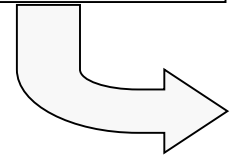
- **Sets uniform learning and competency objectives for assemblers**
- **Establishes 3 Qualification levels**
 - **Qualified Bolting Specialist (QBS)**
 - **Senior Qualified Bolting Specialist (SQBS)**
 - **Qualified Bolting Specialist Instructor (QBSI)**
- **Training and certification done by independent “Qualifying Organizations”**
- **Training in both theory and practical application**





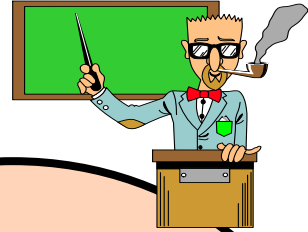
HANDS-ON ATP (HYTORC)

- TEACH
- EVALUATE
- QUALIFY



Authorized Training Provider:

Conducts hands-on practical training and evaluation to ensure that candidates can actually do the work and not just take a test..



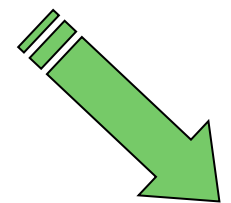
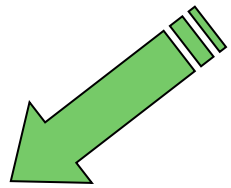
BOLTING THEORY PER PCC-1 (ASME L&D ONLINE)

- TEACH
- TEST

INDIVIDUAL TRAINEE



- PREPARE
- PERFORM
- EXPERIENCE



EMPLOYERS

THE MARKET

Bolting theory per PCC-1: This on-line E-Learning instruction ensures that every candidate masters the principles in the PCC-1 standard. It is offered online so that it can reach people at their own convenience wherever they are and at their own learning pace, without missing work.

ASME LEARNING AND DEVELOPMENT QBS COURSE



FOUR SELF-PACED ONLINE E-LEARNING MODULES

- 1: Principles of the Bolted Joint and ASME PCC-1
- 2: Flanges, Fasteners and Gaskets
- 3: Putting It Together/Taking It Apart
- 4: Bolting Safety and Tool Handling



FINAL COMPREHENSIVE EXAMINATION

MINIMUM 6 MONTHS ACTIVE BOLTING WORK EXPERIENCE

8- HOUR HANDS-ON TRAINING/EVALUATION BY AN AUTHORIZED TRAINING INSTRUCTOR

SUCCESSFUL CANDIDATES RECEIVE THEIR PERSONAL/PORTABLE “**QUALIFIED BOLTING SPECIALIST**” CREDENTIAL

QUESTIONS?

Thank you

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