

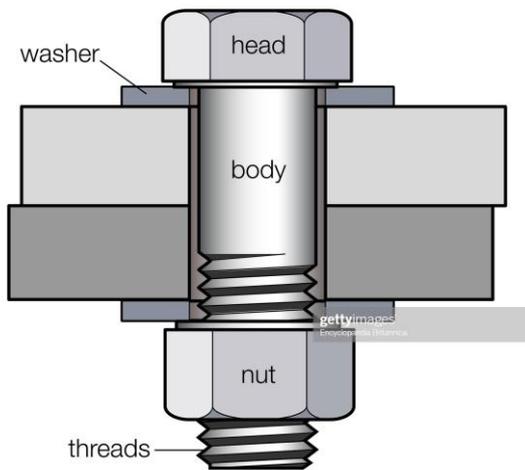
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Hon. Secretary M. Holderness MIMarEST
Hon. Treasurer: C J Bolton MIMarEST



East of England

Thursday 19th March 2020
Safety, Quality & Schedule
Thanks To The Correct Industrial Bolting Practices

Presented by
Andrew Grabowski



Andrew Grabowski worked at Vickers Oils, Europe and Asia in the field of specialised lubricants for marine propulsion systems, hydraulics, industrial

extrusion systems, textile machine and fibre lubrication. As a Marine Sales Engineer, for Pilgrim International Worldwide and as Head of Marine & Power Applications Worldwide for SCHAFF GmbH based in Erkerlenz Germany, he gave technical support for hydraulic bolt tensioning systems, sleeve couplings and interference fit expansion bolts for marine propulsion systems and steam or gas turbine couplings, for military and cruise vessel propulsion systems.

Becoming a director of HYTORC Productivity Enhancement Group in 2016, for UK, Europe, Russia, Middle East, Africa for the sales and promotion of industrial torque tools, and specialist fasteners. Predominately to the Oil & Gas Industry and Power generation of all forms, Rail, Water, Cranes and also to 124 different sectors of industry and our everyday lives.

The presentation aims to introduce an understanding of basic of bolting procedures. Including considerations when using the most primitive methods, to the very latest Techniques used across all industries. Ranging from the latest and most advanced methods, which provide the greatest level of 'safety', 'repeatability' and 'time efficiency' and even how thread formations can achieve the same, due to their mechanical advantage and an explanation of why. Attendees will be given the chance to understand how impact drivers work in comparison to a direct torque tool. What the mechanisms are inside a hydraulic torque wrench, how they work and why there are even the similarities to that of a bolt tensioner. The importance of lubrication and it's relation to 'K' factor. How a bolt tensioner works towards with both a peak and a target retained load? How and why a powered torque wrench needs a reaction arm and the risk it presents. How the hand safety risks associated with reaction arms, are being replaced by using a simple washer?

The presentation will be a mixture of a hands on practical with the audience involving industrial torque wrenches of up to perhaps 10,000 ftlb, yet simple explanatory tools such as hammers, chisels and a tool box ratchet just the same as we all have at home.

Suitable for all levels of engineering knowledge and backgrounds, young and old.

Meeting to be held at:
East Coast College (Lowestoft)

Thursday 19th March 2020
18.30hr for 19.00hrs

NON-MEMBERS WELCOME

The Institute of Marine Engineering, Science and Technology
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