

New Innovations in Med Gas Piping – Changes Found in NFPA 99

This panel discussion will discuss the changes and new medical gas piping technologies found in the 2018 edition of NFPA 99. With the introduction of the 2018 edition of NFPA 99 came new items in medical gas systems that had never before been included. The panel will look at how the new items are already benefiting facilities from the perspectives of design and engineering, installation, and hospital compliance.



Steve Bradshaw

Steve Bradshaw is the Founder and CEO of Evergreen Medical Services Inc., a 70-employee medical gas and environmental services company working for more than 1,000 medical facilities and contractors in the U.S. Steve has worked as a Medical Gas Systems Consultant since 1991 and specializes in piped medical gas systems consulting, education, inspections, testing, repairs, and design. He worked for hospitals while based in New York, Pittsburgh, and North Carolina. Steve earned a B.S. in Mechanical Engineering from North Carolina State University, and his credentials include ASSE/NITC Certified Medical Gas Systems 6010 Installer, 6020 Inspector, 6030 Verifier, 6035 Oxygen Bulk Verifier, 6040 Medical Gas Maintenance, 6050 Instructor, and MGPHO CMGV®. Steve is a current VP of MGPHO.



Mathis Carlson

Mathis Carlson is a Technical Sales Engineer for MediTrac, the leading manufacturer of corrugated medical gas tubing. MediTrac is a revolutionary, first-of-its-kind product, approved by NFPA 99 for medical gas piping systems. As a Technical Sales Engineer, Mathis assists in medical gas system design and sizing, technical support, training, and general medical gas information. Prior to joining MediTrac, Mathis spent 12 years working as a medical gas verifier and instructor after working as a plumber specializing in medical gases for 10 years. Mathis holds multiple ASSE medical gas certifications including 6005 Specialist, 6010 Installer, 6020 Inspector, 6030 Verifier, 6035 Bulk Verifier, 6040 Maintenance, and 6050 Instructor. He also maintains his ASME IX brazing certification and Master Plumber license. In addition, he holds the MGPHO CMGV certified medical gas verifiers credential. Mathis is currently serving on the board of directors for the Medical Gas Professional Healthcare Organization (MGPHO).



Kyle Jussel

Kyle Jussel is currently the President of Medical Air Systems and Medical Air Testing & Service in Denver. As a second-generation medical gas systems specialist, he grew up in the industry and has witnessed its evolution into what it has become today. After graduating from Colorado State University, Kyle immediately went to work obtaining the remaining credentials necessary to succeed in his field (listed below). As a medical gas systems verifier and instructor, Kyle is dedicated to the safety, education, and continued development within the industry. He also currently serves as President of the Medical Gas Professional Healthcare Organization (MGPHO) as well as the Membership Chairperson for the Colorado Association of Healthcare Engineers & Directors. Kyle's credentials are:

- ASSE 6010 Medical Gas Systems Installer
- ASSE 6020 Medical Gas Systems Inspector
- ASSE 6030 Medical Gas Systems Verifier
- ASSE 6035 Bulk Medical Gas/ Cryogenic Fluid Central Supply Systems Verifier
- ASSE 6040 Medical Gas Systems Maintenance Personnel
- ASSE 6050 Medical Gas Systems Instructor
- Credentialed Medical Gas Verifier (CMGV)



Sam Perron, MAT, ASSE 6010 & 6050

Sam Perron worked in commercial plumbing for several years and began installing medical gas in the early 2000s. After earning a teaching degree and working in public education for a little over a decade, he returned to the medical gas field. He has been working in the Boston area as a medical gas installer and trainer since 2016 and holds ASSE 6010 Medical Gas Systems Installer and ASSE 6050 Medical Gas Systems Instructor certifications.