



Best Technology Solutions (BTS)



Welding Technology: Welding, Fabrication and Inspection (AWS, ASME and API Codes) Training program

Seminar Description

Welding Technology plays a major role in all maintenance and fabrication activities in the industry. Production equipment, a highly sophisticated welding technique and qualified personnel allow processing or production of steel products for different applications within short periods. This seminar provides a much needed source of authoritative information on the complex subject of welding. It provides a comprehensive run-down of the complex science of welding- processes, selection of power sources, weld metallurgy, weldability of metals, testing and inspection techniques.

The seminar will cover welding processes, welding consumables, design of welded joints, applied welding metallurgy and heat treating, welding quality control, non-destructive testing and major International Welding Codes and Standards such as AWS and API.

Each session will be conducted in a lecture/discussion format and videos designed to provide intensive instruction and guidance. The director will be available following each day's session to provide participants with further opportunity for discussion and consideration of specific problems.

Training Methodology

This interactive training seminar includes the following training methodologies as a percentage of total tuition hours:-

- 50% Lectures
- 30% Workshops, Group Work & Practical Exercises
- 20% Videos & Software



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Who Should Attend?

Inspection engineers, Mechanical Engineers, Electrical Engineers, NDT personnel, quality assurance personnel, auditors, testing laboratory personnel, and maintenance personnel. Further, this seminar is a must for anyone involved in inspection of welding construction, qualifying welders, brazers and operators; or other involved in writing and qualifying welding and brazing procedure specifications; those responsible for reviewing supplier procedures, auditing or reviewing in-house procedures and qualifications; and those who estimate jobs where compliance of ASME code.

Seminar Certificate

BTS certificate will be issued to all attendees completing minimum of 75% of the total tuition hours of the WORKSHOP.

Seminar Accreditation

BTS courses/workshops/seminars meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Association for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified seminars of continuing education.

BTS has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102, USA. In obtaining this approval, BTS has demonstrated that it complies with the **ANSI/IACET 1-2007 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, BTS is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 1-2007 Standard**.



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BTS will award **3.0 CEUs** (Continuing Education Units) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of BTS programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by BTS. BTS will provide a copy of the participant's CEU Transcript of Records upon request.

Accommodation

Accommodation is not included in the seminar fees. However, any accommodation required can be arranged by BTS at the time of booking.

Course Objectives:

Upon the successful completion of this seminar, the participants should be able to:

- Identify the tools and techniques associated with welding-related fabrication and quality control.
- Point out practical aspects of fabrication and inspection which should be taken into consideration in the design of equipment.
- Monitor fabrication and erection plans and incorporate some quality control requirements into contractual documents.
- Achieve economical compliance with ASME, AWS and API Standards when writing and qualifying welding and brazing procedures.
- Gain insights into ASME Code, AWS and API Standards to facilitate interpreting, understanding and complying with Standards.
- Review welding processes, common variables and basic welding metallurgy.
- Find out how to qualify welders and brazers the easy way.



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- Writing and qualifying welding procedures that comply with ASME Code, AWS and API Standards with an in-depth understanding of the requirements.
- Understand and examine the requirements for welder and operator qualification in details and in an easy way.
- Select test coupons to minimize overall cost of qualification and writing WPSs so that optimum flexibility is achieved.