



Educational and Legal Defensibility of Training Programs in High-Consequence Environments

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American National Standards Institute

Who are we?





A Private- and Public-Sector Partnership Since 1918

Mission

To enhance the global competitiveness of U.S. business and the American quality of life by promoting and facilitating voluntary consensus standards and conformity assessment systems and ensuring their integrity.

ANSI is not a government agency or a standards developer.



Bringing the Private and Public Sectors Together

A Federation of Members Representing

- Academia
- Individuals
- Government
- Manufacturing
- Trade Associations
- Professional Societies
- Service Organizations
- Standards Developers
- Consumer and Labor Interests
- and many more

ANSI represents the interest of more than 125,000 companies and 3.5 million professionals.





- The only accreditor of U.S. Standards Developers
- The only body that approves standards as American National Standards (ANS)
- The only U.S. Representative to ISO (International Organization for Standardization)
- One of the 5 permanent members to the ISO Council of 18
- The only U.S. Representative to IEC (International Electrotechnical Commission) via the U.S. National Committee
- One of the 5 permanent members of the IEC Council Board of 15

ANSI's Accreditation Process

Based on an International Standard

- Meets the requirements of ISO/IEC 17011, *General requirements for accreditation bodies accrediting conformity assessment bodies*
 - ANSI's compliance to standard is mandatory for international recognition
 - The only personnel certification accreditation body to meet 17011 in the United States
- Involves a comprehensive paper review and an on-site visit (audit)
 - Full time staff to administer the program
 - Trained assessors approved by ANSI are engaged for the on-site visits
- An Accreditation Committee comprised of national experts (volunteers) with responsibility for:
 - Oversight, policy and procedure development
 - Determining the accreditation decision based on assessors' recommendations

ANSI Accreditation Portfolio

	Standards	SDO	ANSI <i>Essential Requirements</i>
		US TAG (ISO)	ANSI <i>International Procedures</i>
	Conformity Assessment (ISO 17011)	Product Certification Body	ISO/IEC 17065
		Personnel Certification Body	ISO/IEC 17024
		Certificate Issuer	ANSI-ASTM E2659
		GHG Validation/Verification Body	ISO/IEC 14065
		Management Systems Certification Body	ISO/IEC 17021
		Laboratory	ISO/IEC 17025
		Inspection Body	ISO/IEC 17020
		Proficiency Test Provider	ISO/IEC 17043
		Reference Material Producer	ISO Guide 34
		Medical Lab	ISO 15189

High Consequence Environments/ High Stakes Training

- Risk
- Safety and Regulatory/ Compliance Standards
- Complex Industry/Technical Expertise



Educational Defensibility

- Content Validity

Content must be based on Industry-Accepted Best Practices and approved and monitored by an Expert Oversight Group

- Assessment Validity & Reliability

The scoring of the learner assessment must be based on a passing standard established through a criterion-referenced method



Legal Defensibility

- Are the assessment results and, more generally, the training program defensible in a court of law?
- Scientific Evidence: Validity, Reliability





Certificate Accreditation Program (ANSI-CAP)

ANSI/ASTM E-2659

What's in the Standard?

- Requirements for Certificate Issuers
 - Management Systems
- Requirements for the Certificate Program
 - Analysis, Design, Development, Implementation, and Evaluation
 - Oversight Group
 - Measurable Learning Outcomes, Criterion-Referenced Testing
- Requirements for Certificate Issuance and Use
 - Use of designations
 - Certificate's term of validity

Who Benefits from Certificate Accreditation?

- The Education/Training Provider
- Potential Certificate Program Students
- Certificate Holders
- Employers
- Government Agencies





Agencies/Laws Require ANSI/ASTM E2659-09

- Food Handler Laws (California, Texas, Arizona, Illinois, New Mexico, West Virginia)
- Quality Assurance Entity - Department of Education EQUIP (Educational Quality through Innovative Partnerships)
- Requirement for Federal Contracts/RFPs (FDA, DoE)



Sample Accredited Certificate Programs


GTSC

	Accreditation ID	1130
	Organization	GTSC P.O. Box 25159, Abu Dhabi, United Arab Emirates
	Letter Code	GTSTC
	Website	http://www.gulftech.ae/about-gtsc/
	Accreditation Certificate	 VTJAHYBK

Scope	Granted	Valid Through
Advanced Fire Fighting (2 Day)	3/27/2015	6/25/2019
Authorized Gas Tester	12/18/2014	6/25/2019
Basic Fire Fighting (1 Day)	3/27/2015	6/25/2019
Basic H2S	6/25/2014	6/25/2019
Confined Space	12/18/2014	6/25/2019
H2S Awareness - 1 Day	6/25/2014	6/25/2019
H2S BA	6/25/2014	6/25/2019
H2S Intensive	6/25/2014	6/25/2019
H2S Train The Trainer	6/25/2014	6/25/2019
HAZCOM	12/18/2014	6/25/2019

Sample Accredited Certificate Programs

US Army Combat Readiness/Safety Center

 ANSI ACCREDITED PROGRAM CERTIFICATE ISSUER	Accreditation ID	0928
	Organization	US Army Combat Readiness/Safety Center USA CR/SC, Building 4905, 5th Avenue, Fort Rucker, AL, 36362-5363, United States
	Letter Code	USACRSC
	Website	https://safety.army.mil/
	Accreditation Certificate	 ZJAGHBYD

Scope	Granted	Valid Through
Aviation Safety Officer Course (ASOC)	1/15/2010	1/15/2020
CP 12 Safety Professional Certificate	1/15/2010	1/15/2020
Explosives Safety Level 1	1/15/2010	1/15/2020
Ground Safety Officer Course (GSOC)	1/15/2010	1/15/2020

Sample Accredited Certificate Programs

Gulf Reservoir Modeling Technology

 <p>ANSI ACCREDITED PROGRAM CERTIFICATE ISSUER</p>	Accreditation ID	1187
	Organization	Gulf Reservoir Modeling Technology Khalidiya Street Mermaid Tower office 101, PO Box 41375, Abu Dhabi, United Arab Emirates
	Letter Code	GRM
	Website	working link not available
	Accreditation Certificate	

Scope	Granted	Valid Through
Applied Structure Geology	6/17/2016	6/17/2021
Artificial Lift Techniques	6/17/2016	6/17/2021
Basics Of Geophysics	6/17/2016	6/17/2021
Clastic & Carbonates Characterization	6/17/2016	6/17/2021
Exploration And Development Geology Workshop	6/17/2016	6/17/2021
Petroleum Project Management	6/17/2016	6/17/2021
Production Operation And Technology	6/17/2016	6/17/2021
Prospect Evaluation & Fairway Analysis	6/17/2016	6/17/2021

Sample Accredited Certificate Programs

Emirates Technical & Safety Development Centre

 <p>ANSI ACCREDITED PROGRAM CERTIFICATE ISSUER</p>	Accreditation ID	1202	
	Organization	Emirates Technical & Safety Development Centre MN2 2B2, MUSSAFAH INDUSTRIAL AREA, CORNICHE ROAD P.O. BOX 35450, ABU DHABI, United Arab Emirates	
	Letter Code	ETSDC	
	Website	http://www.etsdc.com	
	Accreditation Certificate		
Scope	Granted	Valid Through	
Hydrogen Sulfide And Breathing Apparatus Competency Training	9/21/2016	9/20/2021	



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