



# Department of Energy (DOE) Technical Standards Program



## All Active DOE Technical Standards

Document Number	Document Title	Responsible SLM
DOE-HDBK-1001-96	Guide to Good Practices for Training and Qualification of Instructors	James O'Brien
DOE-HDBK-1002-96	Guide to Good Practices for Training and Qualification of Chemical Operators	James O'Brien
DOE-HDBK-1003-96	Guide to Good Practices for Training and Qualification of Maintenance Personnel	James O'Brien
DOE-HDBK-1010-92	DOE Fundamentals Handbook, Classical Physics	James O'Brien
DOE-HDBK-1011/1-92	DOE Fundamentals Handbook, Electrical Science, Volume 1 of 4	James O'Brien
DOE-HDBK-1011/2-92	DOE Fundamentals Handbook, Electrical Science, Volume 2 of 4	James O'Brien
DOE-HDBK-1011/3-92	DOE Fundamentals Handbook, Electrical Science, Volume 3 of 4	James O'Brien
DOE-HDBK-1011/4-92	DOE Fundamentals Handbook, Electrical Science, Volume 4 of 4	James O'Brien
DOE-HDBK-1012/1-92	DOE Fundamentals Handbook, Thermodynamics, Heat Transfer, and Fluid Flow, Volume 1 of 3	James O'Brien
DOE-HDBK-1012/2-92	DOE Fundamentals Handbook, Thermodynamics, Heat Transfer, and Fluid Flow, Volume 2 of 3	James O'Brien
DOE-HDBK-1012/3-92	DOE Fundamentals Handbook, Thermodynamics, Heat Transfer, and Fluid Flow, Volume 3 of 3	James O'Brien
DOE-HDBK-1013/1-92	DOE Fundamentals Handbook, Instrumentation and Control, Volume 1 of 2	James O'Brien
DOE-HDBK-1013/2-92	DOE Fundamentals Handbook, Instrumentation and Control, Volume 2 of 2	James O'Brien
DOE-HDBK-1014/1-92	DOE Fundamentals Handbook, Mathematics, Volume 1 of 2	James O'Brien
DOE-HDBK-1014/2-92	DOE Fundamentals Handbook, Mathematics, Volumes 2 of 2	James O'Brien
DOE-HDBK-1015/1-93	DOE Fundamentals Handbook, Chemistry, Volume 1 of 2	James O'Brien



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DOE-HDBK-1015/2-93	DOE Fundamentals Handbook, Chemistry, Volume 2 of 2	James O'Brien
DOE-HDBK-1016/1-93	DOE Fundamentals Handbook, Engineering Symbolology, Prints and Drawings, Volume 1 of 2	James O'Brien
DOE-HDBK-1016/2-93	DOE Fundamentals Handbook, Engineering Symbolology, Prints and Drawings, Volume 2 of 2	James O'Brien
DOE-HDBK-1017/1-93	DOE Fundamentals Handbook, Material Science, Volume 1 of 2	James O'Brien
DOE-HDBK-1017/2-93	DOE Fundamentals Handbook, Material Science, Volume 2 of 2	James O'Brien
DOE-HDBK-1018/1-93	DOE Fundamentals Handbook, Mechanical Science, Volume 1 of 2	James O'Brien
DOE-HDBK-1018/2-93	DOE Fundamentals Handbook, Mechanical Science, Volume 2 of 2	James O'Brien
DOE-HDBK-1019/1-93	DOE Fundamentals Handbook, Nuclear Physics and Reactor Theory, Volume 1 of 2	James O'Brien
DOE-HDBK-1019/2-93	DOE Fundamentals Handbook, Nuclear Physics and Reactor Theory, Volume 2 of 2	James O'Brien
DOE-STD-1020-2012	National Phenomena hazards Design and Evaluation Criteria for DOE Facilities	James O'Brien
DOE-STD-1025-2008	Weapons Quality Assurance Qualification Standard	Karen Boardman
DOE-STD-1026-2009	NNSA Package Certification Engineer Functional Area Qualification Standard	Karen Boardman
DOE-STD-1027-92 (CH1)	Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports	James O'Brien
DOE-HDBK-1028/1-2009	Human Performance Improvement Handbook, Volume 1 of 2	Andrew Lawrence
DOE-HDBK-1028/2-2009	Human Performance Improvement Handbook, Volume 2 of 2	Andrew Lawrence
DOE-STD-1029-92 (CH1)	Writer's Guide for Technical Procedures	James O'Brien



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DOE-STD-1030-96	Guide to Good Practices for Lockouts and Tagouts	James O'Brien
DOE-STD-1031-92 (CH1)	Guide to Good Practices for Communications	James O'Brien
DOE-STD-1032-92 (CH1)	Guide to Good Practices for Operations Organization and Administration	James O'Brien
DOE-STD-1033-92 (CH1)	Guide to Good Practices for Operations and Administration Updates Through Required Reading	James O'Brien
DOE-STD-1034-93 (CH1)	Guide to Good Practices for Timely Orders to Operators	James O'Brien
DOE-STD-1035-93 (CH1)	Guide to Good Practices for Logkeeping	James O'Brien
DOE-STD-1036-93 (CH1)	Guide to Good Practices for Independent Verification	James O'Brien
DOE-STD-1037-93 (CH1)	Guide to Good Practices for Operations Aspects of Unique Processes	James O'Brien
DOE-STD-1038-93 (CH1)	Guide to Good Practices for Operations Turnover	James O'Brien
DOE-STD-1039-93 (CH1)	Guide to Good Practices for Control of Equipment and System Status	James O'Brien
DOE-STD-1040-93 (CH1)	Guide to Good Practices for Control of On-Shift Training	James O'Brien
DOE-STD-1041-93 (CH1)	Guide to Good Practices for Shift Routines and Operating Practices	James O'Brien
DOE-STD-1042-93 (CH1)	Guide to Good Practices for Control Area Activities	James O'Brien
DOE-STD-1043-93 (CH1)	Guide to Good Practices for Operator Aid Postings	James O'Brien
DOE-STD-1044-93 (CH1)	Guide to Good Practices for Equipment and Piping Labeling	James O'Brien
DOE-STD-1045-93 (CH1)	Guide to Good Practices for Notifications and Investigation of Abnormal Events	James O'Brien



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Document Number	Document Title	Responsible SLM
DOE-HDBK-1046-2008	Temporary Emergency Exposure Limits for Chemicals: Methods and Practice	James Fairobent
DOE-STD-1047-2008	Safety Functions and Other Features of Remotely Operated Weapon Systems (ROWS)	Larry Wilcher
DOE-STD-1063-2011 (CH-1)	Facility Representatives	James O'Brien
DOE-STD-1066-2012	Fire Protection	James O'Brien
DOE-STD-1070-94	Best Practices for Evaluation of Nuclear Facility Training Programs	James O'Brien
DOE-STD-1073-2003	Configuration Management Program	James O'Brien
DOE-HDBK-1074-95	Alternative Systematic Approaches to Training	James O'Brien
DOE-HDBK-1076-94	Table-Top Job Analysis	James O'Brien
DOE-HDBK-1078-94	Training Program Handbook: A Systematic Approach to Training	James O'Brien
DOE-HDBK-1080-97	Guide to Good Practices for Oral Examinations	James O'Brien
DOE-HDBK-1081-94	Primer on Spontaneous Heating and Pyrophoricity	James O'Brien
DOE-STD-1083-2009	Processing Exemptions to Nuclear Safety Rules and Approval of Alternative Methods for Documented Safety Analyses	James O'Brien
DOE-HDBK-1084-95	Primer on Lead-Acid Storage Batteries	James O'Brien
DOE-HDBK-1086-95	Table-Top Training Program Design	James O'Brien
DOE-STD-1090-2011	Hoisting and Rigging (Formerly Hoisting and Rigging Manual)	Patricia Worthington
DOE-HDBK-1092-2013	Electrical Safety	Patricia Worthington



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Document Number	Document Title	Responsible SLM
DOE-STD-1095-2011	Department of Energy Laboratory Accreditation Program for Personnel Dosimetry Systems	Andrew Lawrence
DOE-STD-1098-2008 (CN1)	Radiological Control	Patricia Worthington
DOE-HDBK-1099-96	Establishing Nuclear Facility Drill Programs	James O'Brien
DOE-HDBK-1100-2004	Chemical Process Hazards Analysis	Patricia Worthington
DOE-HDBK-1101-2004	Process Safety Management for Highly Hazardous Chemicals	Patricia Worthington
DOE-HDBK-1103-96	Table-Top Needs Analysis	James O'Brien
DOE-STD-1104-2009	Review and Approval of Nuclear Facility Safety Basis and Safety- Design Basis Documents	James O'Brien
DOE-STD-1107-97 (CN1)	Knowledge, Skills, and Abilities for Key Radiation Protection Positions at DOE Facilities	Patricia Worthington
DOE-HDBK-1108-2002 (CH2)	Radiological Safety Training for Accelerator Facilities	Patricia Worthington
DOE-HDBK-1110-2008	ALARA Training for Technical Support Personnel	Patricia Worthington
DOE-STD-1111-98	Laboratory Accreditation Program Administration	Andrew Lawrence
DOE-STD-1112-98	Laboratory Accreditation Program for Radiobioassay	Andrew Lawrence
DOE-HDBK-1113-2008	Radiological Safety Training for Uranium Facilities	Patricia Worthington
DOE-HDBK-1114-98	Guide to Good Practices for Line and Training Manager Activities	James O'Brien
DOE-HDBK-1115-98	Guide to Good Practices for the Selection, Training, and Qualification of Shift Technical Advisors	James O'Brien
DOE-HDBK-1116-98	Guide to Good Practices for Developing and Conducting Case Studies	James O'Brien



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Document Number	Document Title	Responsible SLM
DOE-HDBK-1117-99	Guide to Good Practices for Maintenance Supervisor Selection and Development	James O'Brien
DOE-HDBK-1118-99	Guide to Good Practices for Continuing Training	James O'Brien
DOE-HDBK-1119-99	Guide to Good Practices for the Selection, Training, and Qualification of Shift Supervisors	James O'Brien
DOE-STD-1120/1-2005	Integration of Environment, Safety, and Health into Facility Disposition Activities, Volume 1 of 2	James O'Brien
DOE-STD-1120/2-2005	Integration of Environment, Safety, and Health into Facility Disposition Activities, Volume 2 of 2	James O'Brien
DOE-STD-1121-2008 CN1	Internal Dosimetry	Patricia Worthington
DOE-HDBK-1122-2009	Radiological Control Technician Training	Patricia Worthington
DOE-STD-1123-2009	Safeguards and Security General Technical Base Qualification Standard	Karen Boardman
DOE-STD-1128-2008	Guide of Good Practices for Occupational Radiological Protection in Plutonium Facilities	Patricia Worthington
DOE-HDBK-1129-2008	Tritium Handling and Safe Storage	Chip Lagdon
DOE-HDBK-1130-2013, CN2	Radiological Worker (RW) Training	Patricia Worthington
DOE-HDBK-1131-2007, Change Notice 1, Reaffirmation 2013	General Employee Radiological Training	Patricia Worthington
DOE-HDBK-1132-99	Design Considerations	James O'Brien
DOE-STD-1134-99	Review Guide for Criticality Safety Evaluations	Michael Thompson
DOE-STD-1135-99	Guidance for Nuclear Criticality Safety Engineer Training and Qualification	Michael Thompson



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Document Number	Document Title	Responsible SLM
DOE-STD-1136-2009	Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities	Patricia Worthington
DOE-STD-1137-2007	Fire Protection Engineering Functional Area Qualification Standard	Karen Boardman
DOE-STD-1138-2007	Industrial Hygiene Functional Area Qualification Standard	Karen Boardman
DOE-HDBK-1139/1-2006	Chemical Management (Volume 1 of 3)	Patricia Worthington
DOE-HDBK-1139/2-2006	Chemical Management (Volume 2 of 3)	Patricia Worthington
DOE-HDBK-1139/3-2008	Chemical Management (Volume 3 of 3)	Patricia Worthington
DOE-HDBK-1140-2001	Human Factors/Ergonomics Handbook for Design for Ease of Maintenance	Andrew Lawrence
DOE-HDBK-1141-2008	Radiological Assessor Training	Patricia Worthington
DOE-SPEC-1142-2001	Beryllium Lymphocyte Proliferation Testing	Patricia Worthington
DOE HDBK-1145-2013	Radiation Safety for Plutonium Facilities	Bill McArthur
DOE-STD-1146-2007	General Technical Base Qualification Standard	Karen Boardman
DOE-HDBK-1148-2002	Work Smart Standards (WSS) Users Handbook	Patricia Worthington
DOE-STD-1149-2002	Safety and Health Program for DOE Construction Projects	Patricia Worthington
DOE-STD-1150-2013	Quality Assurance Functional Area Qualification Standard	Karen Boardman
DOE-STD-1151-2010	Facility Representative Functional Area Qualification Standard	Karen Boardman
DOE-STD-1153-2002	A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota	Andrew Lawrence



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Document Number	Document Title	Responsible SLM
DOE-STD-1155-2002	Transportation and Traffic Management Functional Area Qualification	Karen Boardman
DOE-STD-1156-2011	Environmental Compliance Functional Area Qualification Standard	Karen Boardman
DOE-STD-1157-2002	Environmental Restoration Functional Area Qualification Standard	Karen Boardman
DOE-STD-1158-2010	Self-Assessment Standard for DOE Contractor Criticality Safety Programs	Michael Thompson
DOE-STD-1159-2003	Waste Management Functional Area Qualification Standard	Karen Boardman
DOE-STD-1160-2011	Occupational Safety Functional Area Qualification Standard	Karen Boardman
DOE-STD-1161-2008	Mechanical Systems Functional Area Qualification Standard	Karen Boardman
DOE-STD-1162-2003	Instrumentation and Control Functional Area Qualification Standard	Karen Boardman
DOE-HDBK-1163-2003	Integration of Multiple Hazard Analysis Requirements and Activities	Patricia Worthington
DOE-STD-1164-2003 (CN-1)	Aviation Safety Officer, Functional Area Qualification Standard	Karen Boardman
DOE-STD-1165-2003 (CN-1)	Aviation Manager Functional Area Qualification Standard	Karen Boardman
DOE-STD-1166-2003	Deactivation and Decommission Functional Area Qualification Standard	Karen Boardman
DOE-STD-1167-2003	Respiratory Acceptance Program for Supplied-Air Suits	Patricia Worthington
DOE-STD-1168-2013	Confinement Ventilation and Process Gas Treatment Functional Area Qualification Standard	Karen Boardman
DOE-HDBK-1169-2003	Nuclear Air Cleaning Handbook	James O'Brien
DOE-STD-1170-2007	Electrical Systems and Safety Oversight Functional Area Qualification Standard	Karen Boardman





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DOE-STD-1171-2009	Safeguard and Security Functional Area Standard	Karen Boardman
DOE-STD-1172-2011	Safety Software Quality Assurance Functional Area Qualification Standard	Karen Boardman
DOE-STD-1173-2009	Criticality Safety Functional Area Qualification Standard	Karen Boardman
DOE-STD-1174-2003	Radiation Protection Functional Area Qualification Standard	Karen Boardman
DOE-STD-1175-2013	Senior Technical Safety Manager, Functional Area Qualification Standard	Karen Boardman
DOE-STD-1176-2010	Chemical Processing Functional Area Qualification Standard	Karen Boardman
DOE-STD-1177-2004	Emergency Management Functional Area Qualification Standard	Karen Boardman
DOE-STD-1178-2004	Technical Program Manager Functional Area Qualification Standard	Karen Boardman
DOE-STD-1179-2004	Technical Training Functional Area Qualification Standard	Karen Boardman
DOE-STD-1180-2004	Construction Management Functional Area Qualification Standard	Karen Boardman
DOE-STD-1181-2004	Facility Maintenance Management Functional Area Qualification Standard	Karen Boardman
DOE-STD-1182-2004	Civil/Structural Engineering Functional Area Qualification Standard	Karen Boardman
DOE-STD-1183-2007	Nuclear Safety Specialist Functional Area Qualification Standard	Karen Boardman
DOE-STD-1185-2007 (CN-1)	Nuclear Explosive Safety Study Functional Area Qualification Standard	Karen Boardman
DOE-STD-1186-2004	Specific Administrative Controls	James O'Brien
DOE-STD-1187-2007	Beryllium-Associated Worker Registry Data Collection and Management Guidance	Patricia Worthington



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DOE-STD-1189-2008	Integration of Safety Into the Design Process	James O'Brien
DOE-STD-1190-2007	Illness and Injury Surveillance Program Guidelines	Patricia Worthington
DOE-STD-1192-2010	Vulnerability Assessment Technical Standard (OUO)	Larry Wilcher
DOE-STD-1193-2010	Safety Functions and Other Features of Lethal Activated Denial Systems	Larry Wilcher
DOE-STD-1194-2011 (CH-3)	Nuclear Materials Control and Accountability	Larry Wilcher
DOE-STD-1195-2011	Design of Safety Significant Safety Instrumented Systems used at DOE Nonreactor Nuclear Facilities	James O'Brien
DOE-STD-1196-2011	Derived Concentration Technical Standard for Application of Best Available Technology in Support of DOE Order 458.1, Radiation Protection of the Public and the Environment	Andrew Lawrence
DOE-STD-1197-2011	Occurrence Reporting Causal Analysis	Andrew Lawrence
DOE-HDBK-1200-97	Guide to Good Practices for Developing Learning Objectives	James O'Brien
DOE-HDBK-1201-97	Guide to Good Practices: Evaluation Instrument Examples	James O'Brien
DOE-HDBK-1202-97	Guide to Good Practices for Teamwork Training and Diagnostic Skills Development	James O'Brien
DOE-HDBK-1203-97	Guide to Good Practices for Training of Technical Staff and Managers	James O'Brien
DOE-HDBK-1204-97	Guide to Good Practices for Development of Test Items	James O'Brien
DOE-HDBK-1205-97	Guide to Good Practices for the Design, Development, and Implementation of Examinations	James O'Brien
DOE-HDBK-1206-98	Guide to Good Practices for On-the-Job Training	James O'Brien
DOE-STD-1207-2012	Protection Programming Defensive Planning for Fixed Facilities	Larry Wilcher



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Document Number	Document Title	Responsible SLM
DOE-HDBK-1208/1-2012	Accident Investigation and Prevention - Volume 1 - Accident Analysis Techniques	Andrew Lawrence
DOE-HDBK-1208/2-2012	Accident Investigation and Prevention - Volume 2 - Operational Safety Review Techniques	Andrew Lawrence
DOE-HDBK-1209-2012	Access Handbook – Conducting Health Studies at Department of Energy Sites	Patricia Worthington
DOE-STD-1210-2012	Incidents of Security Concern	Larry Wilcher
DOE-STD-1212-2012	Explosives Safety	James O'Brien
DOE-STD-1628-2013	Development of Probabilistic Risk Assessments for Nuclear Safety Applications	James O'Brien
DOE-STD-3006-2010	Planning and Conducting Readiness Reviews	James O'Brien
DOE-STD-3007-2007	Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities	Patricia Worthington
DOE-STD-3009-94 (CN-3)	Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analyses	James O'Brien
DOE-HDBK-3010/1-94 (CN-1)	Airborne Release Fractions/Rates and Respirable Fractions For Nonreactor Nuclear Facilities, Volume 1 of 2	James O'Brien
DOE-HDBK-3010/2-94	Airborne Release Fractions/Rates and Respirable Fractions For Nonreactor Nuclear Facilities, Volume 2 of 2	James O'Brien
DOE-STD-3011-2002	Guidance for Preparation of Basis for Interim Operation (BIO) Documents	James O'Brien
DOE-HDBK-3012-2003	Guide to Good Practices for Operational Readiness Reviews (ORR), Team Leader's Guide	James O'Brien
DOE-STD-3013-2012	Stabilization, Packaging, and Storage of Plutonium-Bearing Materials	Kenneth Picha
DOE-STD-3014-2006	Accident Analysis for Aircraft Crash Into Hazardous Facilities	James O'Brien



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Document Number	Document Title	Responsible SLM
DOE-NA-STD-3016-2006	Hazard Analysis Reports for Nuclear Explosive Operations	Don Nichols
DOE-STD-3020-2005	Specification for HEPA Filters Used by DOE Contractors	James O'Brien
DOE-STD-3024-2011	Content of System Design Descriptions	James O'Brien
DOE-STD-3025-2007	Quality Assurance Inspection and Testing of HEPA Filters	James O'Brien
DOE-HDBK-3027-99	Integrated Safety Management Systems (ISMS) Verification Team Leader's Handbook	Patricia Worthington
DOE-STD-3028-2000	Criteria for Packaging and Storing Uranium-233-Bearing Materials	Don Nichols
DOE-STD-4001-2000	Design Criteria for Electronic Management Software Applications	TheAnne Gordon
DOE-STD-5506-2007	Preparation of Safety Basis Documents for Transuranic (TRU) Waste Facilities	Matthew Moury
DOE-STD-5507-2013	Standard for Communicating Waste Characterization and DOT Hazard Classification Requirements for Low Specific Activity Materials and Surface Contaminated Objects	Julia Donkin
DOE-STD-6002-96	Safety of Magnetic Fusion Facilities: Requirements	Gene Nardella
DOE-STD-6003-96	Safety of Magnetic Fusion Facilities: Guidance	Gene Nardella
DOE-HDBK-6004-99	Supplementary Guidance and Design Experience for DOE Fusion Safety Standards DOE-STD-6002-96 and DOE-STD-6003-96	Gene Nardella
DOE-STD-6005-2001	Industrial Hygiene Practices	Patricia Worthington
DOE-STD-7501-99	The DOE Corporate Lessons Learned Program	Andrew Lawrence