UPF TRAINING REQUIREMENTS MATRIX (TRM) OAK RIDGE, TENNESSEE



September 2025 | Revision 13

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September 2025

Prepared by the Uranium Processing Facility Project Team of Consolidated Nuclear Security, LLC Management & Operating Contractor for the

Y-12 National Security Complex under Contract No. DE NA0001942 with the U.S. Department of Energy National Nuclear Security Administration

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		Effective Date

REVISION LOG

Revision	Description	Intent	Non Intent
13	Item 1 Changed GET reference to General Employee Limited 52000048 to maintain consistency with Y12 site requirements Item 2 Created a new item for site access requirements for visitors per CR 25774-000-GCA-GAM-05209 actions 2 and 3 Item 18 Added the UPF Fall Protection Delta course Revised the items 23, 24, 25 and 26 to eliminate the Annual Field Work Audit and changed the periodicity of the Qualified Electrical Persons for Low Voltage, Medium Voltage, Electrical Testing and Electrical Risk Assessment (ERAT) checklists to being required every 12 months Added references to Y17-95-64-880 UPF Electrical Safety to the requirement source listing in items 23, 24, 25 Revised item 36 - Software Project Team Training requirements per CR 25774-000-GCA-GAM-05290	X	
12	25774-000-GCA-GAM-05290 Incorporate corrections from Pen & Ink on Rev 11 03/31/25 of incorrect and/or misaligned information needing clarified in item 22 and 24. Added Q 52012626 Y17-95-64-880 UPF Electrical Safety in the Workplace to align with Q 51227225 UPF-MANUAL-CM-001 Elec Safety		
Previous Revision	On record	N/A	

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ACRONYMS, ABBREVIATIONS, AND INITIALISMS

CFR Code of Federal Regulations

CUI Controlled Unclassified Information

DC Derivative Classifier

DOE US Department of Energy
FAM Functional Area Manager
GET General Employee Training

GST General Subcontractor Training

LO/TO Lockout/Tagout (hazardous energy control)

MA Management Assessment

OSHA Occupational Safety and Health Administration

PAF Position Assignment Form PSR Project Support Request

QA Quality Assurance

SCI Suspect Counterfeit Items
SME Subject Matter Expert

TPD Training Position Description
TRM Training Requirements Matrix

UCAMS Universal Computing Account Management System

UPF Uranium Processing Facility
CAM Control Accounts Manager

1.0 INTRODUCTION

The Training Requirements Matrix (TRM) is a list of training expectations based on the work performed by Uranium Processing Facility (UPF) Project personnel, cross-walked to the applicable requirement source and corresponding training courses. The TRM is based on activities using a graded approach and provides guidance for supervisors and managers to identify personnel training needs. The matrix does not include every training topic, but has been created to reflect the activities most commonly involved in work performed by UPF Project personnel. The entries that refer to "Management Directive" as the requirement source are considered "should" versus "shall" statements.

2.0 SCOPE OF WORK

2.1 Scope

The requirements specified in this matrix applies to UPF workers and temporary support personnel, i.e. Project Support Request (PSR), subcontractor personnel and interns, who perform work at UPF facilities. It was developed by the Training Manager and Functional Area Managers (FAMs) through analyzing requirements and applicable standards to determine training requirements. It identifies training modules, durations of training, and any re-training requirements. The matrix is not inclusive of all training requirements; however, it is a tool that should be used to ascertain the most common training required for Project personnel. For some tasks, it may be necessary to supplement the information found in this document with information listed in the Y-12 site's other requirements repositories. Subcontractor training programs may be evaluated on a case-by-case basis to determine equivalency with the requirements listed in this document.

3.0 ROLES AND RESPONSIBLITIES

3.1 UPF Training Manager

The UPF Training Manager is responsible for ensuring that a training program is implemented that allows managers and supervisors to identify the training requirements associated with the work performed by UPF Project personnel. The UPF Training Manager will perform the following:

- Develop and submit the UPF TRM for review and approval
- Ensure maintenance of the TRM in order to match hazards and requirements with corresponding training
- Ensure that UPF training materials are developed, implemented, and maintained to support the requirements identified in the TRM
- Ensure that any changes to the TRM are communicated to the Project's functional managers
- Review the TRM as changes are identified, and document any required updates.

3.2 Functional Area Managers

The FAMs, when notified of a change to the TRM, are responsible for reviewing the changes and updating personnel training assignments, as appropriate. This review-and-update process should include, initiating changes to affected Training Position Descriptions (TPDs), and, if needed, initiating changes to affected employees' Position Assignment Forms (PAFs).

4.0 REVIEW AND APPROVAL

4.1 Review

The UPF TRM is reviewed in compliance with Y90-95-027, *UPF Training Procedure* to ensure that the matrix is kept up-to-date with current expectations and requirements. The UPF Training department submits the matrix for evaluation by the affected functional areas. Those departments, in turn, provide input based on their assessments and evaluations. Changes to program, procedures, and Project processes should be evaluated on an ongoing basis for their impact to the overall training requirements.

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
		PROJECT ACCESS TRAINING			
1.	Are person without a DOE L or Q clearance onsite unescorted for 10 days or more (includes PSR personnel) OR Have a DOE L or Q clearance on site unescorted for 10 days or	Q 52000048 General Employee Limited Q 50028732 General Employee Training	2.5 7	12 Once	DOE Order 426.2a, Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities 29 CFR 1910.1200
	more (includes PSR personnel)	Q 51074091 General Employee Refresher (Web)	1	24	10 CFR 835.901 DOE MANUAL 470.4-4 Section B 29 CFR 1910.157(g)
2.	Are a visitor or vendor accessing Construction or Startup Areas	Q 51328622 Dropped Objects Prevention Q 52013925 JHA -0764 Work Near Ener Cable Q 52012176 JHA-0720 Site General Activities Q 51185908 Life Critical Requirements Q 51187446 LCR Attestation Q 52013712 Live Plant Training	0.5 0.5 0.5 0.5 0.5 0.5	Once Once Once Once Once Once	Managerment Directive
3.	Are visitor or vendor needing unescorted access to the Construction or Startup Areas	Q 51222354 Construction Safety Orientation Or Q 52014102 Construction Safety Orientation (Web)	2.0	Once Once	Managerment Directive

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
		PROJECT TRAINING			
	Are a Control Account Manager	Q 51428421 EVMS, Basic EVMS Class	16	Once	E-SD-2013 and DOE O
4.	or Project Controls person supporting a CAM	Q52001525 EMVS Refresher Prerequisite Exam	1	24	413.3A
		Q52001375 EVMS Refresher	1	24	
		STARTUP/COMMISSIONING	<u> </u>		
	Are signatory to, or work under, a	Q 51603876, UPF LOTO Authorized Employee	1	Once	Y17-95-64-801 UPF
5.	Lockout/Tagout permit	Q 51605072, UPF Lockout/Tagout Annual	1	12	Construction Phase System and Equipment Safety Lockout/Tagout
	Perform as a Lockout/Tag Out Authorized Operator	Q 51603920, UPF Authorized Operator	1	Once	V47.05.04.004.UD5
		Q 51603876, UPF LOTO Authorized Employee	1	Once	Y17-95-64-801 UPF Construction Phase System and Equipment
6.		Q 51605072, UPF Lockout/Tagout Annual	1	12	Safety Lockout/Tagout
		Q 51603950, UPF Authorized Operator Verification of Competency	1	Once	
	Function as a Lockout/Tag Out	Q 51603923, UPF Permit Requestor	1	Once	Y17-95-64-801 UPF
7.	Permit Requestor	Q 51603876, UPF LOTO Authorized Employee	1	Once	Construction Phase System and Equipment Safety Lockout/Tagout
		Q 51605072, UPF Lockout/Tagout Annual	1	12	
	Function as a Lockout/Tag Out Tagging Authority	Q 51604044, UPF LOTO Tagging Authority	1	Once	Y17-95-64-801 UPF Construction Phase
		Q 51605072, UPF Lockout/Tagout Annual	1	12	System and Equipment Safety Lockout/Tagout
8.		Q 51603923, UPF Permit Requestor	1	Once	calcity Economy ragion
		Q 51603920, UPF Authorized Operator	1	Once	
		Q 51604009, UPF Tagging Authority Verification of Competence		Once	

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
		STARTUP/COMMISSIONING			
	Function as a Lockout/Tag	Q 51603876, UPF LOTO Authorized Employee	1	Once	Y17-95-64-801 UPF
9.	Out Work Group Supervisor	Q 51605072, UPF Lockout/Tagout Annual	1	12	Construction Phase System and Equipment Safety Lockout/Tagout
		Q 51603920, UPF Authorized Operator	1	Once	, ,
		CONSTRUCTION			
	Function as a Fire Watch	Q51258487, UPF Fire Watch Training	1	Annual	Y17-95-64-877, UPF Hot Work Permit
10.		Q51227577, UPF Fire Watch Practical	1	Annual	UPF-CP-227, UPF
					Safety Watches
	Function as a Permit Authorizing Individual (PAI)	Q 51258487, Fire Watch (Web)	1	Annual	Y17-95-64-877, UPF Hot Work Permit
11.	Additionizing individual (1 Al)	Q 50798653, UPF Hot Work Y17-95-64-877	1	Once/rev	UPF-CP-227, UPF Safety Watches
		Q 52000530, PAI Briefing	1	Once	,
		FIRE PROTECTION/LIFE SAFETY/EMERGENCY MAI	NAGEMENT		
12.	Are an employee or subcontractor onsite more than 10 days – unescorted access	Q 50372664, Y-12 Building /Facility Emergency Plan (B/FEP)	1	12	Y40-507; 29 CFR 1910.165; 29 CFR 1910.
13.	Are a Building Emergency Warden	Q 50025920, Building Emergency Warden	1	12	Y40-140
	Enter Radiological areas, but	QP 50329390, Y12 Rad Worker II Limited			10 CRF 835,
14.	do not perform any hands-on work in the radiological areas, and may serve as a	Q 50385433, RWII Limited Theory	1	24	Occupational Radiation Protection
14.	radiological escort for Limited employees	Q 50323794, RWII Limited PRC	1	24	Management Decision
		Q 51478362, Proper Waste Disposal at BCS	0.5	24	

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
	FIRE	PROTECTION/LIFE SAFETY/EMERGENCY MANA	AGEMENT		
	Are UPF Personnel who need to perform "hands on" work in RAD areas	QP 50233859, Y-12 Radiological Worker: Q 50072886, RWII 956 Initial Theory Part 1	12	Once	10 CFR 835, Occupational Radiation Protection, DOE-HDBK- 1130-2008, DOE
		Q 50023320, RWII 956 Initial PRC	6	Once	Handbook for Radiological Worker
15.		Q 50097802, RWII 4348 Requal, 1 of 3	1	24	Training
		Q 50468260, RWII 4348, 2 of 3	1	24	
		Q 50023961, RWII 4348 Requal PRC,3 of 3	1	24	
		Q 51478362, Proper Waste Disposal at BCS	0.5	24	Management Decision
16.	Are identified as a Confined Space Entrant and/or Attendant	Q 51202464, UPF Confined Space Entrant/Attendant Training	1	Once	Y73-95-802, Confined Space Entry Program
17.	Are a Confined Space Entry Supervisor	Q 51206826 UPF Confined Space Entry Supervisor	1	Once	Y73-95-802, Confined Space Entry Program
		Q 51202464, Confined Space Entrant/ Attendant	1	Once	
18.	Are working or travelling at elevations six (6) feet or more	Q 51217689, UPF Fall Prevention & Protection OR	3	Once	UPF-CP-212, <i>UPF Fall</i> Prevention and
10.	above lower levels	Q 52014136, UPF Fall Protection – Delta (only for personnel current in Y12 Fall Protecton)	.5	Once	Protection
19.	Are working in an area where you are exposed to noise levels of 85 dBs or greater over a time weighted average of 8 hours	Q 51224421, Hearing Conservation Program	0.25	12	UPF-CP-312, Hearing Conservation Program

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements				
	FIRE PROTECTION/LIFE SAFETY/EMERGENCY MANAGEMENT								
20.	Are someone who has a reasonable, anticipated exposure to blood or other potentially infectious material	Q 50023298, Blood borne Pathogens, Class Q 5200001, Bloodborne Pathogens WBT	2.5 1	Once 12	29 CFR 1910.1030 UPF-CP-305, Bloodborne Pathogens				
21.	Are required to wear a respirator in the performance of a work task	Q 51314305, UPF Respirator Training	2	12	CP-318, Respirator Use and Issuance;				
22.	Supervise a person who wears a respirator	Q 52002479, UPF Respirator Training for Supervisors	2	12	CP-318, Respirator Use and Issuance; ANSI Z88.2				
		ELECRICAL SAFETY							
	Work within a limited approach boundary of <u>≥ 50 volts</u> ≤ 600	Q 51269366, UPF Electrical Safety Training Q 51613774, UPF Annual Low Voltage Qualified Electrical Person Checklist	2	36 12	UPF-Manual-CM-001 Uranium Processing Facility Construction Electrical Safety MANUAL				
		Q 51307715, CPR First Aid AED	5	12	Y17-95-64-880 UPF				
23.		Q 52001461 Contact Release	1	12	Electrical Safety				
		Q 51227225, UPF-Manual-CM-001 Elec Safety	2	12					
		Q 52012626 Y17-95-64-880 UPF Elec Safety	1	Once/rev					
		Q 52013925 UPF JHA-00764 Working Around Energized Cables	0.25	Once/rev					

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements				
	ELECTRICAL SAFETY								
	Work within a limited	Q 51269366, UPF Electrical Safety Training	2	36	UPF-MANUAL-CM-001 Uranium Processing				
	approach boundary > 600 volts	Q 51613774, UPF Annual Low Voltage Qualified Electrical Person Checklist		12	Facility Construction Electrical Safety MANUAL				
		Q 52001601, UPF Annual Med Voltage Qualified Electrical Person Checklist		12	Y17-95-64-880 UPF Electrical Safety				
24.		Q 51307715, CPR First Aid AED	5	12					
		Q 52001461 Contact Release	1	12					
		Q 51594483, UPF Med Voltage Elec Safety	2	36					
		Q 51227225 UPF-MANUAL-CM-001 Elec Safety	2	Once/rev					
		Q 52012626 Y17-95-64-880 UPF Elec Safety	1	Once/rev					
		Q 52013925 UPF JHA-00764 Energized Cables	0.25	Once/rev					
	Perform Electrical Hazard Risk Assessments	Q 51227225 UPF-MANUAL-CM-001 Elec Safety	1	Once/rev	UPF-MANUAL-CM-001 Uranium Processing				
	RISK ASSESSITIETIES	Q 52012626 Y17-95-64-880, UPF Elec Safety	13	Once/rev	Facility Construction				
		Q 51269366 UPF Electrical Safety Training	1	36	Electrical Safety MANUAL				
		Q 51428757 Y17-95-64-823, UPF STARRT/JHA	0.25	Once/rev	V47.05.04.000 UDE				
25.		Q 52012925 UPF JHA-00764 Energized Cables	2	Once/rev	Y17-95-64-880 UPF Electrical Safety				
		Q 51594483 UPF Medium Voltage Elec Worker	1	36					
		Q 52009175 UPF Elect Hazard Risk Assess	1	Once					
		Q 52010176 UPF Annual Risk Assessor Checklist	1	12					

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements			
	ELECTRICAL SAFETY							
	Perform Electrical Testing	Q 51269366, UPF Electrical Safety Training	2	36	UPF- <i>MANUAL</i> -CM-001 Uranium Processing			
	(DLRO/Megger/Hi-Pot tests)	Q 52010127, UPF Annual Megger/Hi-Pot Chklist		12	Facility Construction Electrical Safety MANUAL			
		Q 51307715, CPR First Aid AED	5	12				
		Q 52001461, Contact Release	1	12				
26.		Q 51594483, UPF Medium Voltage Elect Safety	2	36				
		Q 51227225, UPF-MANUAL-CM-001	1	Once/rev				
		Q 52012626, Y17-95-64-880 UPF Elec Safety	1	Once/rev				
		Q 52013925, JHA-00764 Energized Cables	0.25	Once/rev				
		Q 52002912, UPF Megger/Hi-Pot Brief	2	Once				
		SECURITY						
27.	Are a person who will have unescorted access to UPF areas	Q 50811234, UPF Project Security Training	1	12	Project Management Directive			
	Possess a UCAMS user ID and	Q 50128312, CNS Annual Cyber Security	1	12	DOE Order 205.1			
28.	password	Q 50030261, Controlled Unclassified Information	1	24	Y19-401			
	Have an 'L' or 'Q' clearance	Q 50024760 Comprehensive Security Briefing	1	Once	DOE O 470.4B Chg. 1			
	Are required to generate, handle, use, store, reproduce, transmit	Q 50436956, Initial CMPC Training	6	Once	E-PROC-3210, Classified Matter			
29.	(including hand-carry), and/or destroy classified matter	Q 50024297, Classified Matter Protection and Control (CMPC)	1	24	Protection & Control MANUAL			

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
		SECURITY			
30.	Have access to classified material by virtue of their work location but will NOT generate, handle, use, store, reproduce, transmit, and/or destroy it	Q 51008028, Modified CMPC Training	0.5	24	DOE O 471.6, Change 2, Information Security
	Are a Derivative Classifier (DC), an individual who possesses the combination to a classified repository, an individual who has routine, daily responsibility for	QP 50493194 Y-12 Derivative Classifier (DC) / Reviewing Official Training Requirements Q 50024297, Classified Matter Protection and Control	1	24	M 470.4-4A DOE M 475.1-1B
31.	classified matter, an individual who serves as a Primary or Alternate Accountable Classified	Q 50269881, Y-12 DCRO Initial/Recert Training	2	24	
	Removable Electronic Media custodian, or an individual	Q 50436956, CMPC Initial Training (L or Q only)	6	Once	
	who carries classified matter outside the Oak Ridge Reservation	Q 50684062, Annual Derivative Classifier Briefing	1	12	
	Routinely work with classified	Q 51305060, Reviewing Official	1	24	DOE O 471.1B & 475.2B
32.	matter and other protected matter	Q 51473440 CNS DC/RO Preliminary	1	Once	473.2b
	Are assigned as a classified Repository Custodian or Alternate Custodian	QP 50675184 Y12 Repository Custodian and Alternates			DOE Order 471.6 Change 1,
	Alternate Custodian	Q 50430158, Repository Custodian Training	1	24	Y19-203, MANUAL for the Protection of
33.		Q 50024297, Classified Matter Protection / Control	1	24	classified matter

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
		SECURITY			
	Use a classified computer system	QP 50233845, Y-12 Classified Account Holder (ISSO)			DOE M 471.2-2
		Q 50029322, Information System Security Officer (ISSO) and Users of Classified Systems	2	Once	
34.		Q 50024297, Classified Matter Protection and Control	1	24	
		Q 50436956, CMPC Initial Training (L or Q only)	6	Once	
		Q 51152353, Email Derivative Classified	2	24	
35.	Escort L-Cleared or uncleared personnel in a Limited Area	Q 50568066, CNS Escorting for Security Areas	1	12	DOE O 473.3A
36.	Are going to be an escort for an un-cleared person in an area where classified computers are located	Q 50610082, CT401-CNS Cyber Security Escort Training	1	12	Y19-401
37.	Prepare, access, transmit, copy, and destroy Controlled Unclassified Information (CUI)	Q 50030261, Controlled Unclassified Info (CUI)	1	24	DOE O 471.3 DOE M 471.3-1

Item No.	If You	Then You Must Complete	Duration (Hours)	Retrain Interval (Months)	Source of Requirements
QUALITY ASSURANCE					
38.	Are a Software Owner or member of software development team	Q 51157886, Y60-95-015, UPF Software Quality Assurance	1	Once	Y60-015, Chapter 3, Software Quality Assurance Manual
	,	Q 52009476, Software Manager Project Team	4	Once	
39.	Participate in a management assessment (MA) or surveillance as the Functional Manager (FAM) Lead	Q 51191716, UPF Management Assessment (MA) Program	.5	Once	Management Directive
40.	Are a Project employee and you access the ActionWay application	Q 51170626, Issues Management Process (IMP)	1	Once	Management Directive
41.	Are a Functional Issues Management Coordinator (IMC) requesting ActionWay permissions	Q 51172385 UPF Issues Management Procedure ActionWay Training	1	Once	Management Directive
42.	Perform as an SC/I Coordinator	Q 51509286 UPF SCI Receipt Inspection	1	Once	Management Directive
		Q 51603304 UPF S/CI Refresher	1	12	
		Q 51127921 UPF Y15-95-813 SCI Procedure	1	Once/rev	
		Q 52001219 UPF S/CI Coordinator Training	1	Once	
43.	Perform receiving/handling or receipt inspection duties	Q 51509286 UPF SCI Receipt Inspection	1	Once	Management Directive
	1000 pt mopodion duito	Q 51603304 UPF S/CI Refresher	.25	12	
44.	Function as General Assessment Team Lead or Member	Q 51328953Y60-95-803 UPF General Assessments	.25	Once/rev	Y60-95-803 UPF General Assessments