

**DOE Packaging Certification Program/ANL Training Course:
Quality Assurance for Radioactive Material Packaging
Argonne National Laboratory, Argonne, IL, March 21-25, 2016
Building 203, Conference Room D-120**

Agenda	
March 21, 2016, Monday, 07:30 – 05:00	
Time	Topic
07:30 – 08:00	Registration
08:00 – 08:30	Welcome/Introduction
	Participant Survey
08:30 – 09:00	Overview
09:00 – 09:45	Graduate Certificate for Nuclear Packaging Program at University of Nevada, Reno
09:45 – 10:00	Break
10:00 – 10:45	NRC Spent Fuel Storage and Transportation Regulatory Framework – Regulations and Processes
10:45 – 11:30	NRC Spent Fuel Storage and Transportation Regulatory Framework – Industry and NRC Staff Guidance
11:30 – 12:00	In-class Exercise I and Discussion
12:00 – 01:00	Lunch
01:00 – 01:45	Regulatory Aspects: 10 CFR 71
01:45 – 02:30	Regulatory Aspects: 10 CFR 72
02:30 – 02:45	Break
02:45 – 03:30	10 CFR 71 Subpart H / 10 CFR 72 Subpart G - Implementation
03:30 – 05:00	In-class Exercise II and Discussion; Homework Assignment #1

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Agenda	
March 22, 2016, Tuesday, 08:00 – 05:00	
Time	Topic
08:00 – 08:30	Discussion of Homework Assignment #1
08:30 – 09:15	DOE Orders & Guides
09:15 – 10:00	10 vs. 18 Elements
10:00 – 10:15	Break
10:15 – 11:00	Overview of ASME NQA-1, 18 Program Requirements
11:00 – 11:45	In-class exercise III and Discussion
11:45 – 01:00	Lunch (Group Photo – before lunch)
01:00 – 01:45	ASME NQA-1, Design Control
01:45 – 02:30	Graded Approach
02:30 – 02:45	
02:45 – 03:30	RAMPAC/Transportation Packaging
03:30 – 04:15	In-class Exercise IV and Discussion; Homework Assignment #2
04:15 – 05:00	Tour – Atomic Exhibit

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Agenda	
March 23, 2016, Wednesday, 08:00 – 05:00	
Time	Topic
08:00 – 08:30	Discussion of Homework Assignment #2
08:30 – 09:15	Software QA
09:15 – 09:45	Commercial Grade Dedication
09:45 – 10:00	Break
10:00 – 10:30	In-class exercise V and Discussion
10:30 – 11:15	QA in Welding
11:15 – 12:00	Tour: ARG-US RFID Command Center
12:00 – 01:00	Lunch
01:00 – 01:45	Test Requirements/ASME Code & 10 CFR 71/72
01:45 – 02:30	Type B Packaging Testing – Recommended Best Practices and QA Testing Issues
02:30 – 02:45	Break
02:45 – 03:30	ANSI N14.5 Leakage Rate Testing
03:30 – 04:00	Packaging Operation
04:00 – 04:30	Introduction to Mock Loading Exercise
04:30 – 05:00	In-class Exercise VI and Discussion; Homework Assignment #3

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Agenda	
March 24, 2016, Thursday, 08:00 – 05:00	
Time	Topic
08:00 – 08:30	Discussion of Homework Assignment #3
08:30 – 10:00	Mock Loading Exercise
10:00 – 10:15	Break
10:15 – 11:00	Group Discussion of Mock Exercise
11:00 – 11:30	QA Inspection and Audit
11:30 – 12:00	Lessons Learned from QA Audits
12:00 – 01:00	Lunch
01:00 – 01:40	In-Class Exercise VII and Discussion
01:40 – 02:10	DOE's Quality Assurance Approval Program (QAAP) Process
02:10 – 02:40	Results of the DOE QAAP Program
02:40 – 03:00	Break
03:00 – 05:00	Final Exam

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Agenda	
March 25, 2016, Friday, 08:30 – 12:00	
Time	Topic
08:30 – 10:00	Graded Approach to establish QA requirements for components Important to Safety (small-group exercise)
10:00 – 10:15	Break
10:15 – 11:00	DOE PCP Certification Process and Lessons Learned
11:00 – 11:30	Participant Evaluation of the Training Course
11:30 – 12:00	Distribution of Certificates