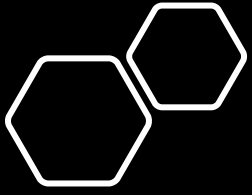


**USW-TMC Radiological Control Technician (RCT)
Training Program
For Hanford Area Tribes**





United Steelworkers / Tony Mazzocchi Center Radiological Control Technician (RCT) Academics Program

- Trains workers to monitor for radiation and radioactive contamination
- Class meets the criteria as outlined by DOE



Hanford DOE Facility

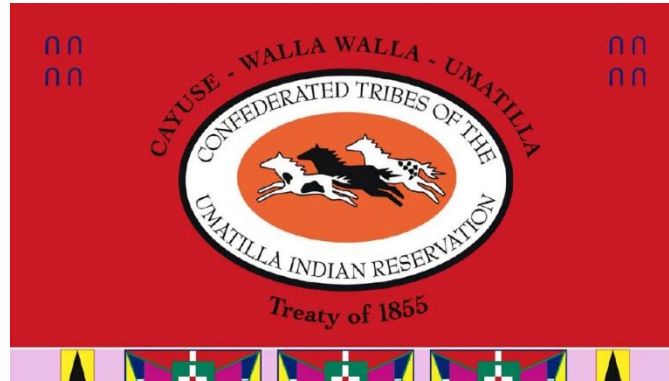
South-Eastern Washington
North-Eastern Oregon

- Contaminated solids
- Groundwater spillage
- Toxic plumes
- Radioactive soil
- Transport of contaminated materials



USW partnering with “TERO’s” Tribal Employment Rights Office

- Surveys tribal members
- Recruits
- Monitors
- Mentors
- Workforce Development
- Allocation of resources
- Partnership with unions, employers



Recruitment Phase

- Mentors
- Youth
- TERO Staff
- Tribal Fire Depts
- Environment Depts
- Archeological Cultural Depts
- Health & Safety Trainers





Course Structure

- At a minimum of 240 hours.
- 120 hours “core” training in math, science, physics.
- 120 hours “site-specific”, Alarms, monitor types, evacuation protocols



Curriculum Outline (1)



Proposed RCT Training Schedule for Tribes 2023

Hours	Day	Time	Date	Class
5	Monday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	13-Mar-23	Module 1.01 Math
5	Tuesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	14-Mar-23	Module 1.01 Math
5	Wednesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	15-Mar-23	Module 1.02 – Unit Conversion
5	Thursday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	16-Mar-23	Module 1.02 – Unit Conversion
5	Monday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	20-Mar-23	Unit Quiz 1.01 & 1.02 – Review
5	Tuesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	21-Mar-23	OSHA 10-Hour
5	Wednesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	22-Mar-23	OSHA 10-Hour
5	Thursday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	23-Mar-23	Module 1.03 Physical Science
5	Monday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	27-Mar-23	Module 1.03 Physical Science
5	Tuesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	28-Mar-23	Module 1.04 Nuclear Physics
5	Wednesday	7 AM – 12 PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM – 10 PM	29-Mar-23	Module 1.04 Nuclear Physics

Curriculum Outline (2)



Hours	Day	Time	Curriculum
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Unit Quiz 1.03 & 1.04 – Review
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.05 Sources of Radiation
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.5 Sources of Radiation
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.06 Radioactive Decay
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.06 Radioactive Decay
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Unit Quiz 1.05 & 1.06 – Review
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	1 st Half Midterm – Module 1.07 Interaction
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.07 Interaction
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.08 Biological Effects
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.08 Biological Effects
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Unit Quiz 1.07 & 1.08 – Review
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.09 Rad Protection Standards
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.09 Rad Protection Standards

Curriculum Outline (3)



Hours	Day	Time	Curriculum
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.11/12 External/Internal Control
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.12 Internal Exposure Control
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Unit Quiz 1.09-1.12 – Review
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.13 Detector Theory
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Module 1.13 Detector Theory
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Unit Quiz 1.13 – Review Day/Preparation for Final Exam
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	FINAL EXAM – FUNDAMENTALS
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	Review if needed with students – 2 nd attempt
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	HAZWOPER 40-hour
5	Thursday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	HAZWOPER 40-hour
5	Monday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	HAZWOPER 40-hour
5	Tuesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	HAZWOPER 40-hour
5	Wednesday	PM, 1 PM – 6 PM, 4 PM – 9 PM, 5 PM	HAZWOPER 40-hour
5	Thursday	5:00 PM	Graduation/Presentation of Certificates

Next Steps

- Establishing a course structure, end goal and MOU
- Adaptation of course material
 - Identification of trainers
- Participant selection (up to 25)
- Offer course the course through TERO's
- Graduation
- Pathway to employment





Challenges, Barriers, Strategies

- Geographic distances
- Enrollment attrition / retention
- Pre-Test (work keys)
- Recruiting instructors
- Job Track possibilities

