HAZARD IDENTIFICATION	
1. PHYSICAL HAZARDS	1/ O N
KSN	KSN
Cold Stress (Outside work temp <0°C)	Pressurized Systems (Other than air)
Heat Stress (Inside / outside >25°C)	□□□ Vacuum System
Noise (Louder than conversational speech)	Compressed Air
Slip / Trip / Fall (Wet, steep, poor housekeeping)	Explosives  Vibration / Shock Sensitive
Enclosed Space (Roll-off bins, B25 boxes)	Mechanical / Moving Parts (Operating equipment)
Confined Space (Storage tank, underground tanks, limited entry)	Sharp Edges / Corners
Oxygen Deficient (<19.5%)	□□□ Inclement Weather
Oxygen Enriched (>23%)	Working On or Near Water
Hydrogen	Moving Equipment / Vehicles
Ergonomics (Repetitive motion, vibration, position for extended time)	Insufficient Lighting
Manual Lifting	Other
Compressed Gases / Cylinders (Welding cylinders, propane tanks)	
2. SAFETY / CONSTRUCTION HAZARDS	
KSN	KSN
Demolition	Hoisting / Rigging
Drum Handling	Overhead Hazards
Elevated Work (>1.2 m above ground)	Welding / Cutting / Burning
Hazardous Energy (Electrical / hydraulic / pneumatic / steam / etc.)	Drilling / Penetration
Concealed / Underground Hazards	Other
Excavation / Trenching	
3. UTILITY HAZARDS	
KSN	KSN
Electrical	Overhead Utility Lines
Gas	Septic / Sewer
Plumbing (Water supply)	Other Concealed / Underground Utilities
Telephone	

4. CHEMICAL HAZARDS	
KSN	KSN
Asbestos	Corrosive (pH<2, pH>12)
Lead	Carcinogen
☐☐☐ Man-Made Fibers (fiberglass)	□□□ Mutagen
Flammable (Flash point, <37°C)	Reproductive Toxin
Combustible (Flash point, 60-93°C)	Pyrophoric (white phosphorus, lithium
□□□ Mercury	hydride)
Heavy Metals (Pb, Cd, Ni, etc.)	
□□□ Toxic (H <sub>2</sub> S)	
☐☐☐ Incompatible Chemicals	Route of Exposure
Polychlorinated biphenyls (PCBs)	☐ Ingestion
Inorganics (chlorides, fluorides, etc.)	Inhalation
Volatile Organics (benzene, methylene chloride, TCE)	Absorption
Oxidizers (methyl ethyl ketone peroxide,	
sodium nitrate, hydrogen peroxide) 5. IONIZING RADIOLOGICAL HAZARDS	
K S N	Route of Exposure
External Exposure	☐ Ingestion
□□□ Internal Exposure	Inhalation
Contamination	Absorption
Fissionable Material	
6. NON-IONIZING RADIOLOGICAL HAZARDS	K 0 N
K S N  ☐☐☐ High Voltage	K S N  Microwave
Radiofrequency (RF)	Ultraviolet (Excluding sunlight)
Laser	Ultraviolet (Sunlight)
7. BIOLOGICAL / VECTOR HAZARDS	
KSN	KSN
Bacterial / Fungi	Rodents
Plants (Allergens, poison ivy, etc.)	Insects, Spiders, Snakes
Medical Waste	Other Wildlife
Parasites	

8. HAZARDOUS WASTE (Does area contain label	
Waste Codes (if known. If not known, complete identified characteristics below.)	
	☐ No Labeled Drums Present
METALS K S N	VOLATILES K S N
Arsenic (D004)	Benzene (D018)
Barium (D005)	2-Butanone (MEK) (F005)
Cadmium (D006)	1,4 Dichlorobenzene (D027)
Chromium (D007)	Ethylbenzene
Lead (D008)	Tetrachloroethylene (D039 or F002)
Mercury (D009)	Toluene (F005)
Selenium (D010)	1,1,1-Trichloroethane (F002)
Silver (D011)	Trichloroethylene (D040)
Other	Xylene (F003)
WASTE CHARACTERISTICS	OTHER
K S N	K S N
Corrosive (D002)	Asbestos
Exothermic Reaction	PCBs
Ignitable (D001)	Soil Debris
Reactive (D003)	Hydrocarbon Impacted Waste
□□□ Toxic	□<100 ppm □Unknown
	□>100 ppm
WASTE CATEGORY K S N	TRANSPORTATION (If moving waste) K S N
□□□ Bio-Hazard	On-Site
□□□ Mixed	Over Public Roads (must comply with
Radiological	transportation regulations)
☐☐☐ Hazardous Characteristics (pH ≤4, ≥10)	
Sanitary Industrial	
PCBs	

9. ENVIRONMENTAL	
KSN	KSN
☐☐☐ Air Emissions (>10 tonnes/year)	Clearing or Excavation
Liquid Discharge (Above effluent limits)	Other
Petroleum Storage (>600 liters)	
HAZADD (	CONTROLS
10. PROTECTIVE CLOTHING	uring pre-planning meetings)
R N	RN
Anti-Contamination Clothing	Disposable Suit (Saranex®)
Aprons	Chemical Resistant Gear
Company Work Clothing	Heat / Flame Resistant Clothing
☐☐ Disposable (Tyvek®) Suits	Other
44 HAND DROTECTION	
11. HAND PROTECTION R N	RN
Chemical Gloves	Standard Work Gloves
Leather Work Gloves	Heat / Flame Resistant Gloves
Kevlar® (Cut Resistant) Gloves	Other
Mesh Gloves	
12. EYE / FACE PROTECTION	
R N	RN
Safety Glasses with Side Shields	Face Shield
Impact Resistant Goggles	Welding Helmet
Chemical Goggles	Other
Shaded Lens for UV (Welding) or Laser	
13. RESPIRATORY PROTECTION	
RN	RN
Half-Face Respirator	Supplied Air
Full-Face Respirator - Air Purifying Respirator	Self-Contained Breathing Apparatus (SCBA)
(APR), Powered APR (PAPR)	
Respirator Cartridge / Canister	Special Ventilation (NAM)

14. FOOT PROTECTION	
RN	RN
Safety-Toed Shoes or Boots	Liquid Impermeable Footwear or Covers
Slip-Resistant Soles	Other
Chemical Resistant Boots	
15. HEAD PROTECTION	
RN	RN
□□ Hard Hat	□□ Hoods
□□ Welding Helmet	☐ Tyvek® ☐ Other
Other	Anti-Contamination Shroud
16. HEARING PROTECTION	<u> </u>
R N	RN
□□ Ear Plugs	Other
□□ Ear Muffs	
17. TEMPERATURE EXTREME PROTECTION	I
R N	RN
Cold Wear Gear	☐☐ Drinking Water
Special Instructions for Work / Rest	Other
18. ELECTRICAL PROTECTION	
R N	RN
Identification of Concealed / Underground Conductors	Ground Fault Circuit Interrupter (GFCI), Residual Current Device (RCD) Protection
Energy Isolation (Lockout / Tagout, LOTO)	Equipment/System Grounding
Insulated (Rated) Rubber, Fiberglass, or	Insulated Tools
Plastic Electrical PPE	Other
Line Clearance Minimum Distances	
19. FIRE / EXPLOSION PROTECTION	<u> </u>
R N	RN
Non-Sparking Tools	Fire Watch
☐☐ A- (P), B- (L), C- (E), D- (M) Rated Fire	Special Notification
Extinguisher	
Grounding / Bonding for Dispensing Flammable Liquids	Other
Fiaminable Liquius	

20. FALL / ARREST PROTECTION	
RN	RN
Safety Harness (Required for all arrest)	Tie-Off Point
Safety Belt (Positioning / Restraint only)	Guard Rail
□□ Lanyard	Boundary Warning
Lifeline	Other
21. SPECIAL RESCUE / RETRIEVAL EQUIPMENT	
RN	RN
Personal Flotation Devices	Rescue Tripod
Rescue Line / Harness	Other
Life Rings with Rope	
22. MONITORING	
R N	RN
Industrial Hygiene Monitoring	Oxygen
□□ Toxic (H₂S)	Combustible Gas
Heat Stress Monitor	Radiological Exposure / Contamination
Chemical Monitor (Colorimetric)	☐ Thermoluminescent Dosimeter (TLD)
□□ Noise	Other
Volatile Organic Compounds (VOCs)	
Explosive (Lower Explosive Limit)	
23. ENVIRONMENTAL MONITORING	
RN	RN
Air Emission Monitoring	Waste storage Area Inspections
Liquid Emission Monitoring	Other
Spill Control Kits	
Waste Drum Inspections	
24. PERMITS	
RN	RN
Confined Space Entry	Radiation Work Permit (RWP)
Excavation / Penetration	Welding / Burning / Hotwork
Lockout / Tagout (LOTO)	Other
Fall Protection	

25. SPECIAL PLANS OR PROCEDURES OR GUIDELINES (other than existing procedures)	
RN	RN
Carcinogen Control	Hearing Conservation Control
Asbestos Work Authorization	Industrial Hygiene Work Permit / Respiratory Protection
Chemical Hygiene Plan	Heat Stress
Exposure Control Plan (For handling bloodborne pathogens, medical waste)	□□ Hoisting and Rigging Lift
☑☐ Emergency Action Plan	Other
26. OTHER MISCELLANEOUS	
RN	RN
Shoring / Sloping Protection for Excavations	☑☐ Barricades / Access Control
27. WALKDOWN CONDUCTED	☐ YES ☐ NO
28. COMMENTS	

If a hazard applies, a check is marked in the "**K**"nown box. If a hazard is suspected or may be present, a check is marked in the "**S**"uspect box. If a hazard does not apply, a check is marked in the "**N**"ot present box.

If a hazard control applies, a check is marked in the "R" equired box. If a hazard control is not required, a check is marked in the "N" ot present box.

This planning process elevates the scope of work to a task-specific hazard review. The work group members and those implementing the work then sign the AHR form.