

## **Equipment needed of U.S. EPA's Hazardous Materials Technician (HMT) course**

The following table lists the equipment and supplies needed to conduct the U.S. EPA's Environmental Response Training Program (ERTP) course titled Hazardous Materials Technician (HMT). It does not list the chemicals (e.g., rubbing alcohol, cleaning ammonia) that are used. The exercise set ups are provided in the instructor guides, but that can be adjusted to meet local needs (e.g., using different chemicals); as long as the student performance objectives are met.

The quantities listed are for a class size of 30. Some quantities, such as the NIOSH Pocket Guides and the number of air monitoring devices, may be changed based on the actual number of students.

All references to specific manufacturers and products do not imply endorsement by the U.S. Environmental Protection Agency (EPA) or its contractors.

### **REFERENCES**

- 4 Book - "NFPA Fire Protection Guide to Hazardous Materials"
- 4 Book - "Emerg. Handling of Hazardous Materials in Surface Transportation"
- 4 Book - "Hawley's Condensed Chemical Dictionary"
- 4 Book - "Emergency Care for Hazardous Materials Exposure"
- 30 Book - "Emergency Response Guidebook (ERG)"
- 4 Booklet - "Janex Chem-Bio Handbook"
- 30 Booklet - "NIOSH Pocket Guide to Chemical Hazards"
- 1 Booklet - "ACGIH TLVs & BELs"
- 1 Book - "Global Edition Symbol Seeker"
- 1 Book - "Firefighters Handbook of Hazardous Materials"
- 1 Book - "Quick Selection Guide to Chemical Protective Clothing"
- 1 Book - "Chemical Protective Clothing Performance Index"
- 1 Book - "The Merck Index"
- 1 Book - "Farm Chemicals Handbook"
- 1 Book - "Sax's Dangerous Properties of Industrial Materials"
- 1 Book - "CHRIS Manuals" Set
- 1 Booklet - "Emergency Action Guides" Set

### **EQUIPMENT**

- 4 Device Measuring Variables in Gas – Four gas
- 4 Device Measuring Variables in Gas – PID or FID
- 4 Device Measuring Radiation
- 5 Device Measuring Variables in Gas – Detector tube Pump
- 5 Device Meas. Var. in Gas - Detector Tubes - CO<sub>2</sub>
- 5 Device Meas. Var. in Gas - Detector Tubes - Acetone
- 5 Device Meas. Var. in Gas - Detector Tubes – Alcohol

## HMT 24 hr Generic Equipment list

- 5 Device Meas. Var. in Gas - Detector Tubes – Ammonia
- 5 Device Meas. Var. in Gas - Detector Tubes - for Hydrocyanic Acid
- 5 Device Meas. Var. in Gas - Detector Tubes - for Toluene
- 1 Device Measuring Variables in Gas - Gas Sample Bag
- 1 Hand Pump
- 2 Medical Instrument and Appliances - Blood Pressure Kit
- 1 Medical Instrument and Appliances - Blood Pressure Monitor
- 1 3 Gallon Shop Vac
- 1 100' Extension Cord
- 1 50' Extension Cord
- 1 Power Extension Cord, 100' w/reel
- 6 Binoculars
- 2 Flashlight, Small
- 20 Radio, Two-Way
- 4 5/8" X 50' Hose
- 1 Hose, fire, 1 1/2" X 50' Section
- 1 1-1/2" to 5/8" Hose adapter
- 1 Gate Valve, 2.5"
- 1 Nozzle, Variable Flow Nozzle, 1.5"
- 1 Hose Coupler Reducer, 2.5" to 1.5"
- 2 Thermometer, Ear Temperature, with probes covers

### PERSONAL PROTECTIVE EQUIPMENT

- 6 Personal Protective Equipment - Gloves, Surgical, Nitrile
- 16 Personal Protective Equipment - Incident Command Vests
- 24 Personal Protective Equipment - Thermal Wear Cool Vest
- 20 Personal Protective Equipment - Hard Hats w/Chin Straps
- 30 Personal Protective Equipment - Safety Glasses
- 8 Eyeglass Anti-Fog
- Self-Contained Breathing Apparatus & (SCBA) Masks 1 per 2 students.

Assortment of Level A training suits enough to suit up half of the class.

- 2 Boxes, Non-Alcohol Mask Wipes, 100/Box

### TOOLS

- 1 Tool Kit w/Case
- 4 Wrench, Hydrant
- 5 Tools - 14" Socket Wrench
- 4 Tools - Drum Wrench, Socket
- 6 Handling Equipment - Hand Truck

### EXERCISE MATERIALS

- 1 Document - Air Lab and Field Exercise Instructions
- 1 Document - ICS Decon Procedures
- 1 Drum and Pipe Rack Repair Kits
- 1 Pipe Rack for Plug and Patch Exercise
- 27 Stool, Medical
- 9 Bucket, 5 Gallon, Plastic
- 2 Bucket, 10 Gallon, Plastic

## HMT 24 hr Generic Equipment list

- 5 Bucket, 2.5 Gallon, Plastic
- 3 pH Testing Station
- 1 Plastic container for pH Testing Station
- 5 pH Paper
- 1 Rad Exercise Grid Board
- 1 Placard Display Board
- 1 Compressed Breathing Air Cylinder Filling Station - Cascade Kit
- 3 Ratchet Strap
- 2 Drum and Pipe Plug and Patch Kits
- 1 Par film - Drum Patching Material
- 2 Rug, 3' X 4'
- 2 Shipping Document Set
- 12 Signage, Label and Placard Set for Simulations
- 6 First Aid Kit
- 4 Board, Signs for the Decontamination Line
- 2 Haz Mat Catch Basin 36" X 36"
- 2 Dip Sticks, Sampling, Plastic 40"
- 4 Paper Towels,
- 6 Tape, Masking
- 4 Tape, Duct, Silver
- 2 Tape, Barrier, 3" x 1000', Red - Do Not Enter
- 2 Tape, Barrier, 3" x 1000', Yellow - Danger
- 2 Dispenser, Barricade Tape
- 2 Tape, Duct, 3" Roll
- 3 Tape, Masking, 2" Roll
- 4 Bottles, Plastic, small empty
- 3 Jar, Plastic, 1 pint
- 10 Traffic Cones, 36"
- 16 Traffic Cones, 20"
- 4 Sprayers
- 6 Absorbent Socks, 3'
- 3 Absorbent Pillows
- 1 Absorbent Roll 38" X144" x3/8"
- 4 Shovel, Non-Sparking
- 2 Brooms, non-static
- 8 Brush, Long Handled, Scrub
- 4 Broom Handles
- 2 Board, Rewritable
- 2 5 Gallon Cooler
- 1 Spray Bottle, 1 quart
- 1 30 Gallon Polyethylene Drum
- 1 20' X 100' Polyethylene Decon Tarp
- 6 32 Gallon Polyethene Drum with Lid and dolly 28" x 22"
- 1 Storage Drums - 85 Gallon, Metal, UN 1A2/Y435/S 38" X 27"
- 1 Storage Drums - 35 Gallon, Poly, UN 1H1/Y1.9/100 27" X 18"
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- 8 Marker, Dry-Erase
- 1 Box, Tampons 12/Box
- 12 55 Gallon Trash Bags
- 3 Sheeting, Polyethylene