

TEAP III TERSP Standard Training Matrix

The content of this training matrix was adopted by CERCA on November 13, 2013.

The purpose of the TEAP III TERSP Standard Training Matrix is to establish criteria and guidelines for on-scene transportation emergency response personnel – Team Leaders and team members. As there are no agencies or documents that state an exact schedule for re-training, TERSPs registered under TEAP III are expected to meet this guideline whether in-house, for hire or mutual aid.

Attendance at training sessions for individuals can be waived, provided that the demonstrated capability is documented. That is, the person responsible for training and the individual has provided written (signed) documentation that the capability has been demonstrated.

The training matrix does not include support personnel and Incident Commanders. The Incident Commander role is not fulfilled by a transportation emergency response service provider. In all cases, the TERSP works under the auspices of the responsible party or regulatory authorities (municipal, provincial, territorial or federal).

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Topic	Requirements (Team members/ Team Leaders)	Frequency	Training Requirements	Key element to be Included in Training	Testing – Theory/Practical
NFPA 472-2018 or 1072-2019	Team leaders and team members	Once	Team leaders: Trained to technician level <ul style="list-style-type: none"> • Responsible for selection of personnel and appropriate equipment for the response • Complete and implement the site safety plan for the response team in conjunction with Incident Command. Team members: Trained to the operations level	In accordance with the NFPA standard	In accordance with the NFPA standard. Proof of demonstrated competency provided at the time of assessment.
First Aid & CPR	Team Leaders	As required by provincial regulation	Team Leaders must have current certification. Certification is recommended for all other team members.	Standard or emergency level first aid (or better) including CPR from a recognized agency (St John’s, Red Cross, Etc.)	Theory: Testing required by a recognized agency. Practical: Testing required by a recognized agency
Regulatory Compliance	Team Members and Team Leaders	As per regulation	Trained in the applicable sections of the Act(s) and Regulation(s) which apply to the contractor’s area of operation and capability chart.	May include but not limited to; <ul style="list-style-type: none"> • WHMIS • Transportation of Dangerous Goods • Occupational Health and Safety 	As required by regulation

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<p>Media Awareness</p>	<p>Team Members and Team Leaders</p>	<p>Once</p>	<p>Review and acceptance of the TERSP's Media Awareness Policy</p> <p>Other training requirements as set by each individual TERSP</p>	<p>As determined by the TERSP</p>	<p>Theory: Signed review and acceptance of the TERSP's Media Policy for each Team Leader/Member</p> <p>Practical: As determined by TERSP</p>
<p>Incident Command Systems</p>	<p>Team Leaders</p>	<p>36 Months</p>	<p>ICS 200 or equivalent</p>	<p>Advanced knowledge of positions and responsibilities of Command Staff, General Staff, Support Staff. Advanced Knowledge of Single and Unified command structures. Advanced knowledge of ICS facilities. Advanced knowledge of ICS forms and document management.</p>	<p>Theory: Test for knowledge from every key element to identify understanding and retention.</p> <p>Practical: None</p>
<p>Surveying Dangerous Goods/ Hazardous Materials</p>	<p>Team Leaders and Team Members</p>	<p>24 Months</p>	<p>Capability to recognize the presence of Dangerous Goods/ hazardous materials and means of containment. Ability to estimate product volumes involved in an incident for all products outlined in the Transportation Emergency Response Service Provider (TERSP) "capability chart"</p>	<p>Knowledge and use of information resources needed to identify Dangerous Goods (visual signs, shipping documents, container type, and container materials of construction).</p> <p>Ability to identify and interpret available resource material including; hazardous material databases, monitoring results, reference manuals, technical information centres.</p> <p>Ability to identify by name and specification, all containers outlined in the TERSP "capability chart", including typical materials shipped, approximate capacities of containers and design/</p>	<p>Theory: Identification of Hazardous Material by TDG placard, UN number, WHMIS classification and other visual sources of identification.</p> <p>Identify means of containment and typical contents by name and specification.</p> <p>Identify given markings on a container to identify capacity (by weight/ volume)</p> <p>Practical: None</p>

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				construction features	
Risk Assessment	Team Leaders and Team Members	24 Months	Capability of estimating the harm of all classifications/ products outlined in the TERSP “capability chart”. This will include collection of risk evaluation information and interpretation of collected data considering the variability of a given incident.	<p>Ability to collect and interpret product characteristic data and to identify the hazards they may pose during a given incident.</p> <p>Ability to collect and interpret product exposure limits and to identify the hazards they may pose during an incident.</p> <p>Ability to identify the resources available for purposes of recognizing the effects of mixing various Dangerous Goods/ hazardous materials.</p> <p>Ability to identify types of container stress/ damage and the associated risks from the damage. Set criteria for hazard zones and monitoring needs.</p>	<p>Theory: Given a product, collect and interpret product characteristics and exposure limits for purposes of determining hazards (Life, Environment, and Property).</p> <p>Given a product, identify the criteria for hazard zones (Hot, Warm, and Cold).</p> <p>Practical: None</p>
Air Monitoring	Team Leaders and Team Members	24 Months	Capability to choose, use and maintain the proper meter needed for products outlined in the TERSP “capability chart”, and to interpret and communicate results.	<p>Know the capabilities, limiting factors, selection and use of metering equipment required for all products outlined in the TERSP “capability chart”</p> <p>Capability to choose the proper instrument, understand the use of equipment, reasons for metering, field level functional bump testing/ calibration of equipment and to interpret and communicate results.</p>	<p>Theory: Given a product, identify the proper meter needed to evaluate associated hazards. Identify the meter's limiting factors, field calibration requirements, reading interpretation.</p> <p>Practical: Demonstrate the correct use of appropriate meters needed by a contractor (associated with the contractor's “capability chart”)</p>

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<p>Respiratory Protection</p>	<p>Team Leaders and Team Members</p>	<p>24 Months</p>	<p>Capability to choose, use, and inspect respiratory protection required for response to all products outlined in the TERSP “capability chart”</p>	<p>Properly select the needed respiratory protection for a given product, concentration, and incident application. (CSA Z-94.4)</p> <p>Understand the use, limitations and inspection of all respiratory protection needed by the EESP. Complete fitting and testing of face piece seals as required (CSA Z94.4).</p>	<p>Theory: Given a product, concentration and incident application, identify the needed respiratory protection.</p> <p>Practical: Demonstrate proper inspection, use, and emergency procedures for all respiratory protection needed by the contractor.</p> <p>Fit testing – (CSA Z94.4)</p>
<p>Chemical Protective Clothing</p>	<p>Team Leaders and Team Members</p>	<p>24 Months</p>	<p>Capability to select proper PPE for any incident scenario involving products outlined in the TERSP “capability chart”. Don, work in, and doff applicable PPE.</p>	<p>Properly select the required PPE for a given incident scenario.</p> <p>Understand the three factors which may compromise the PPE. Permeation, Penetration, Degradation.</p> <p>Understand the potential stress placed on the suit wearer and the need to cool personnel in PPE.</p>	<p>Theory: Given a product, concentration and incident application, identify the required PPE for the incident.</p> <p>Practical: Demonstrate the ability to Inspect, Don, work-in, Doff applicable PPE. Complete the following tasks. Demonstrate emergency procedures applicable to the PPE required by the TERSP.</p>
<p>Decontamination</p>	<p>Team Leaders and Team Members</p>	<p>24 Months</p>	<p>Capability to select decontamination procedures associated with incidents involving products outlined in the TERSP “capability chart”. This will include proper planning, setup, and practical implementation/ use of the procedure.</p>	<p>Properly select the decontamination procedure for a given incident.</p> <p>Understand the required equipment and setup for all needed decontamination procedures.</p> <p>Understand the technical operations of;</p> <ul style="list-style-type: none"> • Decontamination to 	<p>Theory: Given a product, concentration and incident application, identify the proper decontamination procedure and associated equipment.</p> <p>Practical: Demonstrate the ability to setup and implement the following types of decontamination</p>

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				support entry TERSP operations	operations; <ul style="list-style-type: none"> • Technical decontamination to support TERSP operations
Product Handling & Recovery	Team Leaders and Team Members	24 Months	Capability to select, implement, and complete product transfer procedures for all products and means of containment outlined on the TERSP “capability chart”	<p>Selection of appropriate transfer operations, equipment, and receiving containers by product and incident scenario (compatibility).</p> <p>Transfer operations for applicable products (Liquids, Solids, and Gases).</p> <p>Troubleshooting equipment problems associated with the TERSP equipment</p> <p>Bonding and grounding setup; monitoring and maintenance.</p>	<p>Theory: Given a product, means of containment and incident application, identify product transfer options, associated equipment, and needed safety precautions.</p> <p>Practical: Demonstrate the setup, transfer, and breakdown of equipment needed to transfer products outlined in the TERSP “Capability Chart”</p>
Container-specific response techniques	Team Leaders and Team Members	24 Months	Capability to implement actions required to deal with leaks from containers found in the TERSP “capability chart”	Demonstrate the proper use of specialized equipment and techniques to deal with leaks from containers outlined in the contractor “capability chart”	<p>Theory: None</p> <p>Practical:</p> <p>Drum Response Any contractor who shows capability for “small containers (drums)” response in any class, must demonstrate actions to be taken for the following leak points:</p> <ul style="list-style-type: none"> • Bung leak

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					<ul style="list-style-type: none"> • Chime Leak • Forklift puncture • Nail puncture <p>Demonstrate over-packing techniques for placing damaged container into salvage drum.</p> <p>Cylinder Response Any contractor who shows capability for “cylinder” response in class 2, must demonstrate actions to be taken for the following leak points:</p> <ul style="list-style-type: none"> • Fusible plug threads • Side wall of cylinder • Valve blowout • Valve gland • Valve inlet threads • Valve seat • Valve stem assembly blowout <p>Pressure Bulk Containers Any contractor who shows capability for “Tank truck, or Tank Car” response in class 2, must demonstrate the following actions:</p> <ul style="list-style-type: none"> • Close valves that are open • Replace missing plugs • Tighten loose plugs • Install capping kit (if applicable for container)
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<p>Project and Safety Management</p>	Team Leaders	Once	Company specific training for project management and documentation control. Provincial or Federal supervisor responsibilities training.	As determined by the company and regulatory agency applicable to the TERSP	<p>Theory:</p> <ul style="list-style-type: none"> • Provide examples of OHS plans created by Each Team Leader. • Provide examples of incident documentation completed by Each Team Leader <p>This may be from a training or actual event.</p> <p>Practical: None</p>