Procedure:

**Working during Extreme Weather**

1. **Purpose**
   To identify environmental hazards faced by workers and eliminate where possible or otherwise reduce worker exposure to those hazards.

2. **Actions Required**
   - Identify environmental hazards for workers
   - Implement effective control measures
   - Audit and review.

3. **Definitions**
   - **GSCC**: Greater Shepparton City Council
   - **GSCC RO**: GSCC Responsible Officer, a Greater Shepparton City Council employee, who in their area of responsibility has a managerial or supervisory role or has engaged a contractor(s)
   - **OUTDOOR WORK**: any work outdoors for part or all of the day
   - **PPE**: Personal protective equipment
   - **SUNSCREEN**: 30+ rated product designed for skin protection
   - **UV**: Ultra violet referring to the radiation levels emitted from the sun.
   - **Council approved**: Clothing or headwear that complies with Council’s uniform policy, approved items that features the Council logo and/or meets the requirements within this procedure.

4. **Responsibility and Authority**
   - **Managers / Supervisors**
     - Identify hazards that may be present due to the environment
     - Identify means within workgroups to eliminate or reduce worker exposure to potentially harmful environmental conditions.
     - Monitor effectiveness of strategies in place to eliminate or reduce worker exposure to potentially harmful environmental conditions.
     - Provide appropriate work procedures and PPE and monitor its effectiveness
     - Encourage employees to monitor weather conditions to ensure they are not putting themselves or others at risk
     - Access forecast weather conditions (This may be gained from ABC radio 97.7FM or 774 AM or Bureau of Meteorology web site [www.bom.gov.au](http://www.bom.gov.au) or GSCC intranet, Insite)
   - **Workers**
     - Follow guidelines or work practices given to minimise environmental risks
     - Use PPE when and as required
     - Report any hazardous situations they become aware of due to weather conditions

5. **Procedure**
   **Risk Assessments**
   Risk assessments are to be conducted to identify effect on workers from possible extreme weather conditions.

   The Risk Assessment should consider:
• Workers exposure to Ultra Violet (UV) index levels of 3 and above or adverse cold weather
• PPE requirements
• Procedures to deal with extreme weather days
• Radiant heat and “one off” or consecutive hot periods
• Access to shade and water
• Wind conditions
• Effect of weather conditions to plant.
• Sweat causing loss of grip or eyesight
• Visibility issues due to sun glare or darkness due to rain/cloudy
• Fatigue and loss of concentration
• Burns from hot or cold surfaces
• Effect of weather conditions on chemicals.

6. Strategies for Dealing with Different Working Environments

Hot Weather and High UV
There is no set temperature at which work must be halted. Working in seasonal heat presents a number of health and safety hazards, which may be influenced by a number of risk factors.

The following factors should be considered:
• Consideration of “consecutive hot days” or “one off” day of heat
• The task being performed
• Access to shade and water
• Availability to rotate duties, more frequent breaks or extension of breaks. GSCC RO’s are required to report any rescheduling of work activities to their respective Managers
• Ability to adjust the work/rest regime due
• Use of PPE such as broad brimmed hats. PPE is the least effective control measure and other more effective means to ensure workers health in extreme weather are to be implemented

During days of extreme heat GSCC RO’s are responsible for ensuring workers:
• Avoid prolonged and continuous periods in the direct sun
• Consider means of reducing heat loads such as the provision of a shaded work area
• Access to shade where appropriate
• Have an adequate supply of cool drinking water
• Adequate sun screen protection
• Advise workers to maintain hydration (drinking approximately of half a litre of liquid every hour worked. Carbonated soft drinks do not effectively hydrate the body).

Prior to ceasing work to seek medical attention or due to signs of stress, workers must make every reasonable effort to notify their manager or supervisor.

Personnel Protective Equipment (PPE)
PPE provided for workers working in the outdoor environment must be aimed at eliminating where possible or otherwise reducing worker exposure to harsh environmental hazards.

PPE Clothing
Where activities and tasks occur outdoors and in outdoor environment, the minimum acceptable standard PPE clothing includes:
• Long sleeved shirts and long trousers or long skirt/dress.
  (Different types of fabric provide different protection. GSCC can only advise employees not issued with a uniform to seek clothing for outdoor work with a suitable UPF rating.)
Fabrics should carry a swing tag with a UPF rating, 50+ provides the best protection. GSCC RO's responsible for deciding on employee uniforms where outdoor work is required, must seek appropriate sun smart fabrics/uniforms for such work.

**PPE Headwear**

**During Day light saving period**

Required headwear for work in outdoor environment includes:

- A Council approved wide brimmed hat:
  - With a rim of at least 8 cm wide
  - Constructed from material that transmits less than 10% of UV radiation
  - That allows user to wear ear protection where required or
- A bucket hat with a brim of 6-7 cm or
- A Council approved Baseball cap - Legionnaire style only.
- On sites where safety helmets (hard hats) are mandatory, additional sun protection is needed during outdoor work to protect face, ears and neck.

(Various sun protection accessories are available for attaching to helmets, such as broad brims or Legionnaire covers with peak and flap at the back and sides.)

**During Non Day light saving period**

Headwear for work in outdoor environment includes:

- Any of the above headwear.
- A Council approved Baseball cap - Legionnaire style or standard
- A Council approved beanie

During the non-day light saving period GSCC Responsible Officers are expected to monitor expected UV levels and where the predicted UV reading is expected to reach 3+, GSCC Responsible Officers are instruct personnel to comply with the Day light saving period head wear requirements.

NOTE: Employees are not required to wear headwear:

- Whilst in a cabin of a vehicle or
- Where Plant or machinery is fitted with appropriate shade cover or sun protection,

**But when required to perform any duties without the above UV protection, all persons must comply with the required PPE outlined in this procedure.**

**Other Sun Protection**

- Sun screen lotions are to be provided and available on location for outdoor employees and should exceed a sun protection factor (SPF) of 30+
- Training for outdoor employees detailing the potential hazards of UV radiation exposure, the use of PPE and the application of sun screens that should be applied hourly due to the sweating process removing the product from the skin

**Exemptions To PPE Requirements**

- Life guards are exempt from wearing long pants whilst on lifeguard duties.
- But are encouraged to:
  - Apply sunscreen to exposed limbs regularly.
  - (as sweating can remove sunscreen from the body) and

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<thead>
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<th>Procedure number</th>
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<td>2</td>
<td>The Executive</td>
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- Are encouraged to use provided or natural shade areas if tasks can be appropriately completed whilst doing so.
- Work groups that develop a job or location specific sun smart procedure approved by GSCC OHS Committee may be exempt from particular items of PPE
- Workers exposed to UV radiation performing duties that are not a part of their regular tasks and would be classified as a “one off”
- Workers not exposed to UV radiation for longer than 15 minutes.

How to Apply For Exemption
Work groups wishing to apply for exemption of PPE items must provide the OHS Committee with a detailed sun smart plan.

GSCC Discipline Procedures will be initiated where an employee fails to comply with sun protective control measures.

The Wind Chill Factor
What Is The Wind Chill Temperature?
The combined effect of cold air and wind speed is expressed as "equivalent chill temperature" (ECT) or simply "wind chill" temperature in degrees Celsius or Fahrenheit. It is essentially the air temperature that would feel the same on exposed human flesh as the given combination of air temperature and wind speed. It can be used as a general guideline for deciding clothing requirements and the possible health effects of cold.

### WIND CHILL CHART

<table>
<thead>
<tr>
<th>Wind Speed (km/h)</th>
<th>Ambient Temperature (°C)</th>
<th>Equivalent Chill Temperature (°C)</th>
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<tbody>
<tr>
<td></td>
<td>-4</td>
<td>-1</td>
</tr>
<tr>
<td>Calm</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>24</td>
<td>24</td>
<td>15</td>
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<td>48</td>
<td>30</td>
<td>30</td>
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<td>56</td>
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Adapted from: Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) handbook, published by ACGIH, Cincinnati, Ohio

Little danger in less than one hour exposure of dry skin
Maximum danger or loss of sense of feeling
DANGER – Exposed flesh freezes within one minute
GREAT DANGER – Flesh may freeze within 30 seconds
Equipment Design
For work below the freezing point, metal handles and bars should be covered by thermal insulating material. Machines and tools should be designed so that they can be operated without having to remove gloves.

Wind
Wind may cause areas to become dangerous due to falling or flying objects. Procedures are to be in place to deal with the effect wind will have on workplaces and plant items including vehicle travel when windy conditions are forecast or occur.

All activities in areas such as bushland should cease and the area evacuated if wind speeds above 6 on the Beaufort scale occur.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Observable effects</th>
<th>Approx. Wind speed Kph</th>
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<tbody>
<tr>
<td>1</td>
<td>Calm</td>
<td>Smoke rises vertically</td>
<td>1.6</td>
</tr>
<tr>
<td>2</td>
<td>Light Air</td>
<td>Smoke drifts slightly</td>
<td>1.6-5</td>
</tr>
<tr>
<td>3</td>
<td>Light breeze</td>
<td>Leaves rustle gently</td>
<td>6-11</td>
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<tr>
<td>4</td>
<td>Gentle breeze</td>
<td>Leaves and small twigs move</td>
<td>13-20</td>
</tr>
<tr>
<td>5</td>
<td>Moderate breeze</td>
<td>Small branches move, paper blown around.</td>
<td>20-30</td>
</tr>
<tr>
<td>6</td>
<td>Strong Breeze</td>
<td>Smaller trees sway</td>
<td>40-50</td>
</tr>
<tr>
<td>7</td>
<td>Moderate gale</td>
<td>Large branches sway</td>
<td>50-60</td>
</tr>
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<td>8</td>
<td>Fresh gale</td>
<td>Small branches broken, walking difficult</td>
<td>60-75</td>
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<tr>
<td>9</td>
<td>Strong gale</td>
<td>Loose exterior fixtures damaged</td>
<td>75-85</td>
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<tr>
<td>10</td>
<td>Whole gale</td>
<td>Trees blown down, significant damage</td>
<td>75-85</td>
</tr>
<tr>
<td>11</td>
<td>Storm</td>
<td>Much blown down</td>
<td>100-120</td>
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<tr>
<td>12</td>
<td>Hurricane</td>
<td>Major natural disaster</td>
<td>120+</td>
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**********Assess duties and surroundings at these wind speeds**********

Rain/Severe Storms
- If lightning is imminent, seek shelter immediately (not a tree)
- Seek shelter clear of windows, doors and skylights
- If driving, stop clear of trees, powerlines and streams
- Do not use a landline telephone during a thunderstorm due to lightning danger
- Minimize slipping hazards, check all treads (steps, ladders, trucks, etc.) before wet weather occurs to be sure they are in good condition
- Make sure all electrical equipment is kept out of the water
- Be aware of your surroundings. Watch foot placement, falling objects, slippery surfaces. Do not run on wet surfaces, reassess footwear due to changed conditions
- Do not continue work in trenches or excavations until a competent person has deemed it safe
- Workers are not to drive or walk through flood waters
- Drive to the conditions.
7. References
- Occupational Health and Safety Act 2004
- Beaufort Wind Force Scale
- Greater Shepparton Heat Wave Plan 2009
- Sun Smart Victoria Web Site
- WorkSafe Website
- Protection of Workers from the Ultraviolet Radiation in Sunlight Safework Australia Guidance Note 2008

8. Related Documents
Supporting Documents Refer Trim Reference:
- M10/109368: Working without support systems
- M10/109360: Hazard Identification, Risk assessment, Control & Reporting

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