West Virginia CTE

Outdoor Education

Outdoor Skills Development

1. **Navigation skills.** 1086.1
   1. Develop proficiency in map reading, compass use, and GPS navigation for effective outdoor orientation. 1086.1.1
   2. Interpret topographic maps. 1086.1.2
   3. Demonstrate accurate compass navigation. 1086.1.3
   4. Utilize GPS devices for location tracking. 1086.1.4

2. **Basic survival skills.** 1086.2
   1. Develop fundamental survival skills essential for outdoor adventures. 1086.2.1
   2. Identify edible and medicinal plants. 1086.2.2
   3. Construct basic tools for survival situations. 1086.2.3

3. **Rope and knot skills.** 1086.3
   1. Master the use of ropes and knots for various outdoor applications. 1086.3.1
   2. Tie essential knots for securing gear and creating structures. 1086.3.2
   3. Use ropes for climbing and rappelling. 1086.3.3

4. **Flora and Fauna Identification** 1086.4
   1. Develop knowledge of local plant and animal species for safety and appreciation. 1086.4.1
   2. Identify common plants and wildlife. 1086.4.2
   3. Understand ecological relationships in outdoor environments. 1086.4.3

5. **Camping equipment use and maintenance.** 1086.5
   1. Understand safety protocols and risk management strategies for outdoor activities. 1086.5.1
   2. Assess environmental risks. 1086.5.2
   3. Develop and implement safety plans. 1086.5.3

6. **Outdoor photography.** 1086.6
   1. Develop basic photography skills to capture outdoor experiences. 1086.6.1
   2. Use cameras and smartphones for outdoor photography. 1086.6.2
   3. Apply composition techniques for compelling outdoor shots. 1086.6.3

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Risk Management and Safety in the Outdoors

7 **Risk assessment.** 1086.7

1 Conduct comprehensive risk assessments for outdoor activities. 1086.7.1

2 Identify potential hazards and risks. 1086.7.2

3 Evaluate the likelihood and severity of identified risks. 1086.7.3

8 **Emergency response planning.** 1086.8

1 Develop effective emergency response plans for various outdoor scenarios. 1086.8.1

2 Establish communication protocols during emergencies. 1086.8.2

3 Formulate evacuation and response strategies. 1086.8.3

9 **First aid proficiency.** 1086.9

1 Demonstrate proficiency in providing first aid in outdoor environments. 1086.9.1

2 Assess and address common outdoor injuries. 1086.9.2

3 Administer CPR and basic life support. 1086.9.3

10 **Weather monitoring and response.** 1086.10

1 Monitor weather conditions and respond appropriately to changing weather. 1086.10.1

2 Interpret weather forecasts. 1086.10.2

3 Implement safety measures in adverse weather situations. 1086.10.3

11 **Group management and supervision.** 1086.11

1 Effectively manage and supervise groups during outdoor activities. 1086.11.1

2 Establish clear communication channels within the group. 1086.11.2

3 Monitor participant behavior and well-being. 1086.11.3

Adventure Education

12 **Leadership development.** 1086.12

1 Foster leadership skills through outdoor adventure experiences. 1086.12.1

2 Provide opportunities for participants to take on leadership roles. 1086.12.2

3 Facilitate debrief sessions to enhance leadership insights. 1086.12.3

13 **Team building strategies.** 1086.13

1 Develop and implement effective team-building strategies for diverse groups. 1086.13.1

2 Analyze group dynamics. 1086.13.2

3 Tailor team-building activities to address specific group needs. 1086.13.3

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Adventure programming design. 1086.14

1 Design adventure programs that align with educational and developmental goals. 1086.14.1

2 Develop curriculum for adventure education programs. 1086.14.2

3 Integrate learning outcomes into program design. 1086.14.3

15 Adaptive leadership. 1086.15

1 Cultivate adaptive leadership skills to respond to changing outdoor conditions. 1086.15.1

2 Train participants to adapt to unexpected challenges. 1086.15.2

3 Demonstrate flexibility and resilience in outdoor scenarios. 1086.15.3

16 Program evaluation and assessment. 1086.16

1 Assess the effectiveness of adventure education programs and make improvements. 1086.16.1

2 Implement participant evaluations. 1086.16.2

3 Conduct post-program assessments for continuous improvement. 1086.16.3

Interpretation and Outdoor Education Programming

17 Educational program design. 1086.17

1 Design educational programs that align with learning objectives and participant needs. 1086.17.1

2 Identify educational goals and outcomes. 1086.17.2

3 Tailor programs to diverse participant backgrounds. 1086.17.3

18 Activity planning and sequencing. 1086.18

1 Plan and sequence activities to create a cohesive and educational outdoor experience. 1086.18.1

2 Develop itineraries for outdoor programs. 1086.18.2

3 Ensure a logical flow of activities based on learning objectives. 1086.18.3

19 Multidisciplinary integration. 1086.19

1 Integrate various disciplines into outdoor education programming for a holistic learning experience. 1086.19.1

2 Collaborate with experts in relevant fields (e.g., ecology, history). 1086.19.2

3 Incorporate interdisciplinary concepts into programs. 1086.19.3

20 Curriculum development. 1086.20

1 Develop curriculum materials that support outdoor education programs. 1086.20.1

2 Create lesson plans and instructional materials. 1086.20.2

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3 Align content with educational standards. 1086.20.3

21 Community involvement. `1086.21`

1. Involve and engage the local community in outdoor education programs. `1086.21.1`
2. Collaborate with local organizations and experts. `1086.21.2`
3. Facilitate community-based learning experiences. `1086.21.3`

Leave No Trace Principles

22 Principles understanding. `1086.22`

1. Demonstrate a comprehensive understanding of the Leave No Trace principles. `1086.22.1`
2. Explain each of the seven Leave No Trace principles. `1086.22.2`
3. Understand the rationale behind the principles and their environmental impact. `1086.22.3`

23 Application of principles. `1086.23`

1. Apply Leave No Trace principles in various outdoor settings. `1086.23.1`
2. Implement principles during camping, hiking, and other outdoor activities. `1086.23.2`
3. Adapt principles to specific ecosystems and environments. `1086.23.3`

24 Integration into outdoor programming. `1086.24`

1. Integrate Leave No Trace principles into outdoor education and tourism programs. `1086.24.1`
2. Design programs that educate participants on responsible outdoor practices. `1086.24.2`
3. Incorporate Leave No Trace principles into trip planning and itineraries. `1086.24.3`

25 Evaluation of Leave No Trace programs. `1086.25`

1. Evaluate the effectiveness of Leave No Trace education and advocacy programs. `1086.25.1`
2. Develop assessment tools for program evaluation. `1086.25.2`
3. Gather feedback from participants and stakeholders. `1086.25.3`

26 Continuous learning and adaptation. `1086.26`

1. Participate in ongoing education on Leave No Trace. `1086.26.1`
2. Adjust practices based on new information and best practices. `1086.26.2`