

## PENN TRAILS TRAINING PROGRAM

This outline provides an overview of the knowledge and skills taught by the Penn Trails instructors in the following workshop. The workshop consists of approximately 14 hours of class contact time, not including lunch and breaks. Normally, a two-day session is taught from 8:30 a.m. to 4:30 p.m., with two 15 minute breaks and one 30 minute lunch break. Course registration is limited to a ratio of 12 participants to 1 instructor, with a maximum course size of 24 students and 2 instructors. Classes are held, rain or shine, but will be delayed or cancelled due to dangerous weather conditions such as lightning, high winds or severe precipitation.

### TRAIL BED & TREAD WORKSHOP

This two-day professional trail workshop focuses on a natural surface trail's bed and tread planning, layout and construction. The relationship between the trail's intended use(s), the design parameters determined by use(s), the materials and construction techniques utilized to meet the use and design parameters, along with ongoing maintenance of the trail will be covered, providing participants both expertly guided classroom learning and hands-on client site experience.

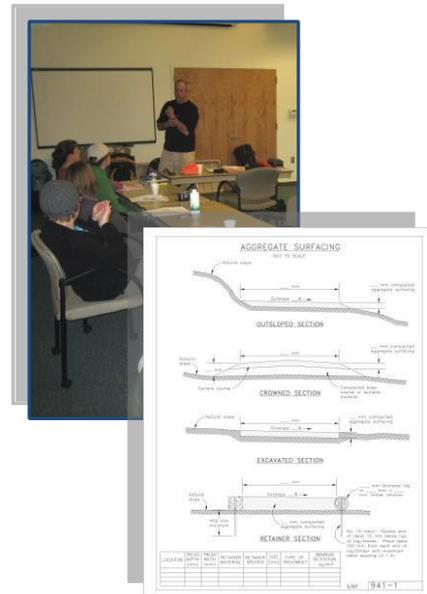
#### 2-Day Workshop curriculum includes;

1. Grade & Slope
  - a. Managed Use and Design Parameters
2. Erosion, Water, Obstacles and Drainage
  - a. Reversals, Swales & Dips & Turns
3. Soil, Rock & Vegetation
4. Natural materials for constructing trail bed and trail tread
  - a. Aggregate materials
  - b. Techniques for stabilizing trail bed and trail tread
5. Project Planning & Scheduling
  - a. Best Management Practices (BMPs)
  - b. Scope of Work
  - c. Documentation
6. Alignment, Flagging and Staking

- Day 1: Classroom instruction & field demonstration  
8 hours including 2 x 15 minute breaks and 1 x 30 minute lunch break.
- Day 2: Project site hands-on instruction 8 hours including 2 x 15 minute breaks and 1 x 30 minute lunch break.

#### Client provides;

- **Comfortable classroom space and furnishings for participants and instructor(s), with whiteboard or paper flipchart, paper/pencils (Day 1).**
- **Digital projector and screen.**
- **Hand tools and personal protection gear for all participants. (Day 2)**
- **One trail project site, approved in advance by Penn Trails (Day 2)**
- **Client assigned project leader (Day 1 and Day 2)**





- Depending upon the specific site work to be conducted as part of this workshop, project materials and supplies examples *might* include one or more of the following;
  - 🚧 Native (mineral) soil
  - 🚧 Aggregate (limestone): clean #3s & 4s; 2-A
  - 🚧 Mirafi 140N geotextile
  - 🚧 Large diameter, multi-faced local stone (50 to 100 lb range)
  - 🚧 PVC culvert pipe (8, 10 or 12 inch diameter)

**CONTACT:** Penn Trails [717] 486.4455 [info@penntrails.com](mailto:info@penntrails.com)