

ASSOCIATION OF PROFESSIONAL PATROLLERS
CERTIFICATION TESTING CRITERIA

EXPLOSIVES

BASIC KNOWLEDGE AND SKILLS NEEDED TO ATTAIN ASSOCIATE STATUS:

1. Identify and describe the use of: Primers, safety fuse, caps, primer cord, and igniters.
2. Describe the handling of explosive from magazine to control point.
3. Describe crimping and use of hand crimper. Make a cap and fuse assembly.
4. Describe primary safety concerns.
5. Know the burning rate and detonation velocity of various explosives.
6. Describe basic storage concerns.
7. Describe how to handle a dud.
8. Describe how to arm gelatin and cast primers.
9. Describe that a standard slope charge is and what it means.
10. Know the applicable state laws governing the use of explosives for snow blasting.

ADVANCED KNOWLEDGE AND SKILLS NEEDED TO ATTAIN CERTIFIED STATUS:

1. Describe the construction and characteristics of: Primers, safety fuse, caps, primer cord and igniters.
2. Describe the advantages and disadvantages of different types of primers.
3. Describe the use of primer cord in avalanche control.
4. Have an understanding of the relationship between density, detonation pressure and detonation velocity of explosives.
5. Know proper reporting procedures involved in explosive accidents.
6. Know the OSHA Blaster's License requirements.
7. Describe proper record keeping for storage and handling explosives.
8. Describe proper storage of explosives: table of distances, construction requirements of magazines.
9. Describe proper transportation of explosives.
10. Describe the advantages and disadvantages and types of artillery used for avalanche control.
11. Describe the function, advantages and disadvantages of the avalauncher.

REFERENCES USED:

USFS Avalanche Handbook
DuPont Blaster's Handbook
OSHA Explosives Safety Orders
State Explosives Regulations