



SPECIAL OPERATIONS

TECHNICAL RESCUE
& INLAND WATER RESCUE

*COMMUNITY
ACADEMY*

SPECIALIZED RESCUE DISCIPLINES

- Trench Rescue (24)
- Rope Rescue (72)
 - Low & High Angle
 - Tower & Tower Crane
- Confined Space Rescue (24)
- Machinery Rescue (8)
- Structural Collapse (80)
- Vehicle Rescue (32)
 - Passenger
 - Heavy Vehicle
 - Train / METRO
- Inland Water Rescue (48)
 - Swift Water Rescue
 - Flood Water Rescue
 - Ice Rescue

(Minimum Training Hours)

KEYS TO SUCCESS

- Thorough knowledge of tools
- Thorough knowledge of problem
- Application of Basic Concepts
- Teamwork





TRENCH RESCUE / CAVE IN

- Concepts Applied:
 - Soil Types
 - Soil Failures
 - Shear Wall
 - Rotational
- Trench Stabilization
 - Wood Shoring
 - Pneumatic Shoring

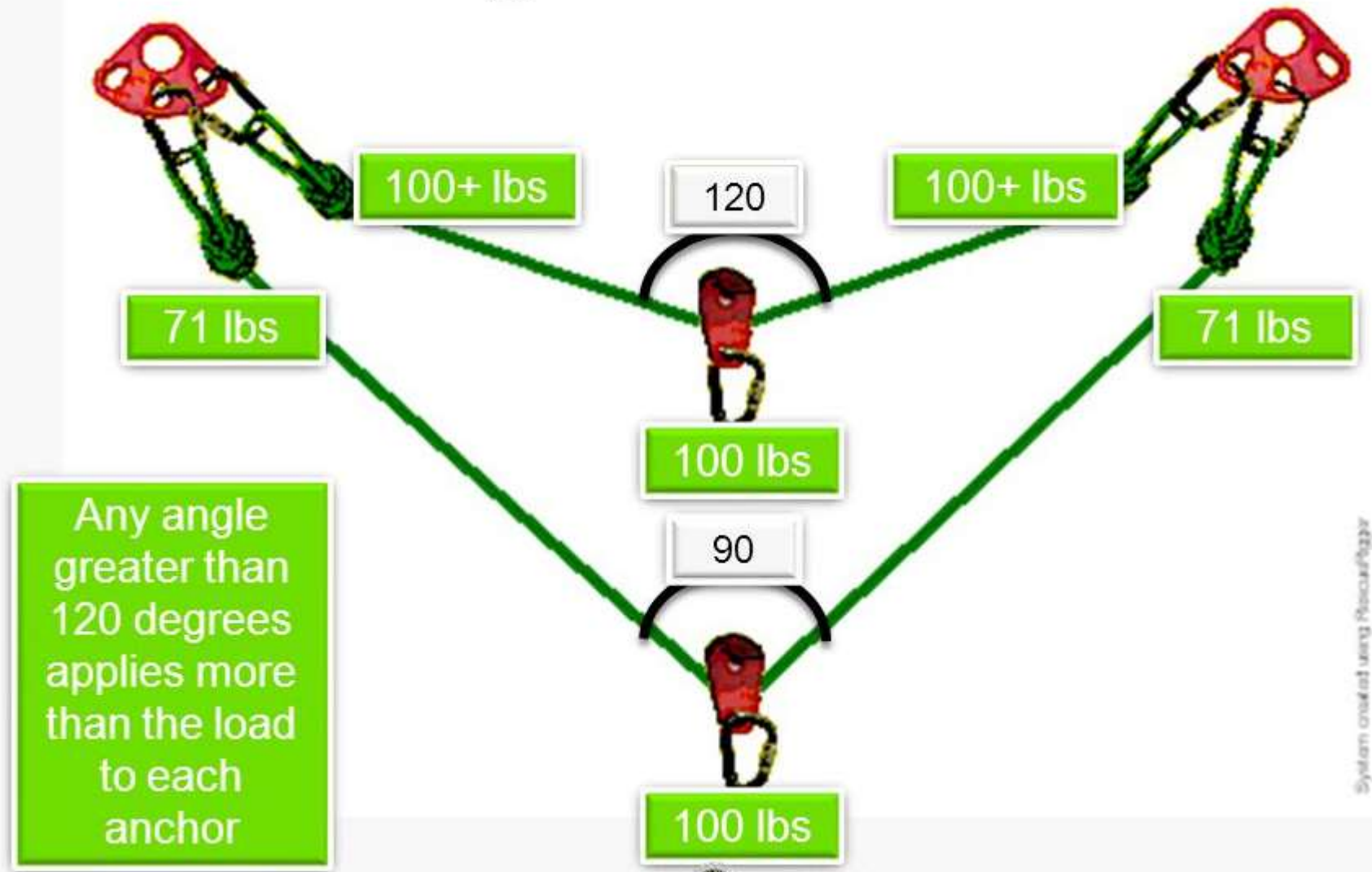


ROPE RESCUE

- Concepts Applied:
 - Mechanical Advantage
 - Theoretical
 - Actual
 - Percentages
 - Knot Efficiency
 - Rope Stretch
 - Angles
 - On Anchors
 - On Change of Directions
 - Resultant Forces

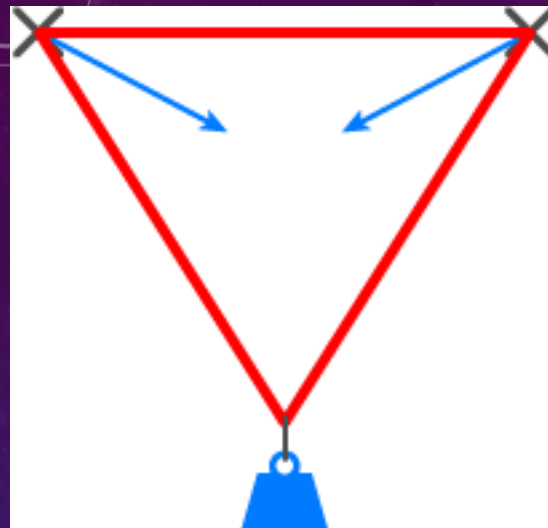
Blind Shaft Removal
2/2018

Critical Angles





3:1
Mechanical
Advantage
System



American Death Triangle





WWB
Jumper
9/2020



Stoval St. Injured worker
removed from upper floor
2/2019



CONFINED SPACE RESCUE

- Concepts Applied:
 - Air Monitoring
 - Lock Out Tag Out
 - Mechanical Aptitude
 - Pattern Recognition
 - Ventilation
 - Air Movement for clean air circulation in space
 - Air Consumption for SABA
 - Calculating remaining supply and forecasting air needs



Dog stuck in
Wrought Iron
Fence 10/2021

MACHINERY RESCUE

- Concepts Applied:
 - Heat Transfer / Dissipation
 - Relief Cuts / Angles
 - Metal Types
 - Ferrous
 - Non-Ferrous



STRUCTURAL COLLAPSE

- Concepts Applied:
 - Calculating Material Weights
 - Material Strengths & Weaknesses
 - Compression
 - Tension
 - Shear
 - Load Transfer





VEHICLE RESCUE

- Concepts Applied:
 - Material Strengths & Weaknesses
 - Applied Force
 - Stabilization
 - Center of Gravity
 - Opposing Forces
 - Cribbing
 - Load Transfer
 - Weight Transfer
 - Simple Levers





INLAND WATER RESCUE

- Concepts Applied:
 - Fluid Dynamics
 - Estimating Paths of Travel
 - Buoyancy











BLUPRINT CHOCOLATIERS

QUESTIONS?