Human Performance Teaching Methods

NERC Human Performance Conference

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HP Fundamentals:

- 3-way Communication
- Phonetic Alphabet
- Situational Awareness

3-way Communications

- 2 walkie-talkie's
- One person is director and has map of the course
- 2nd person is driver
- Navigates course per direction from director

Phonetic Alphabet

Instructions given clearly using PA

Situational Awareness

Do not run over obstacles

Materials

Home built obstacle course

- Built from scrap
- Cost for paint \$30
- 14 Letters \$2 each

RC Cars less than \$50 each

Miscellaneous items:

Plaster of Paris, felt, frog, bus, children - \$50

Radio's - \$50

Total estimated cost: \$210

Tools for teaching

A video camera

- Useful to record class segments for future use
- Useful for self evaluation
- Have observers take video
- Involves observers in the exercise

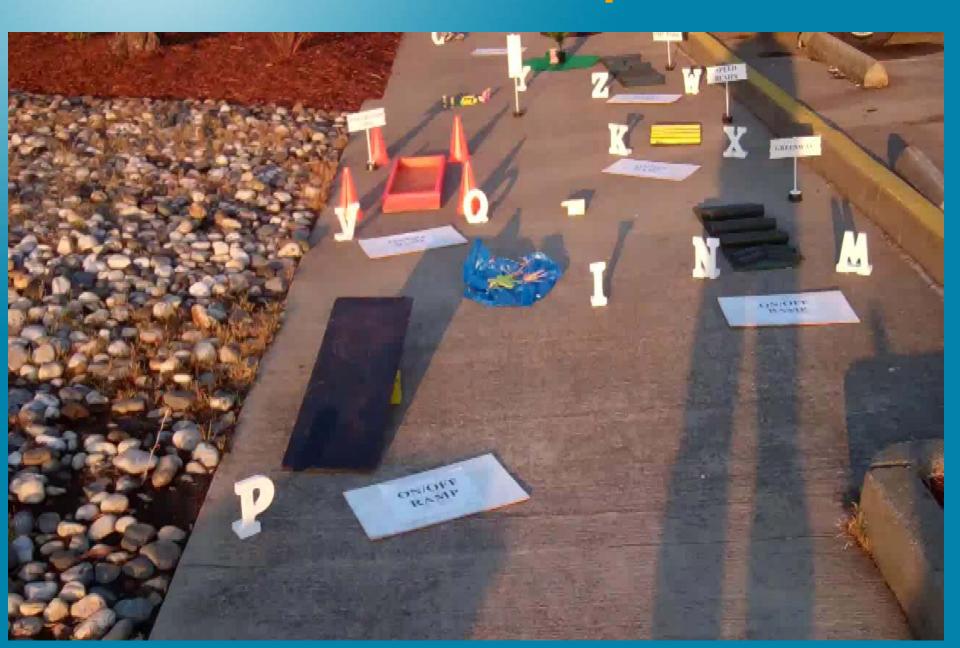
Review sheets

Observers critique

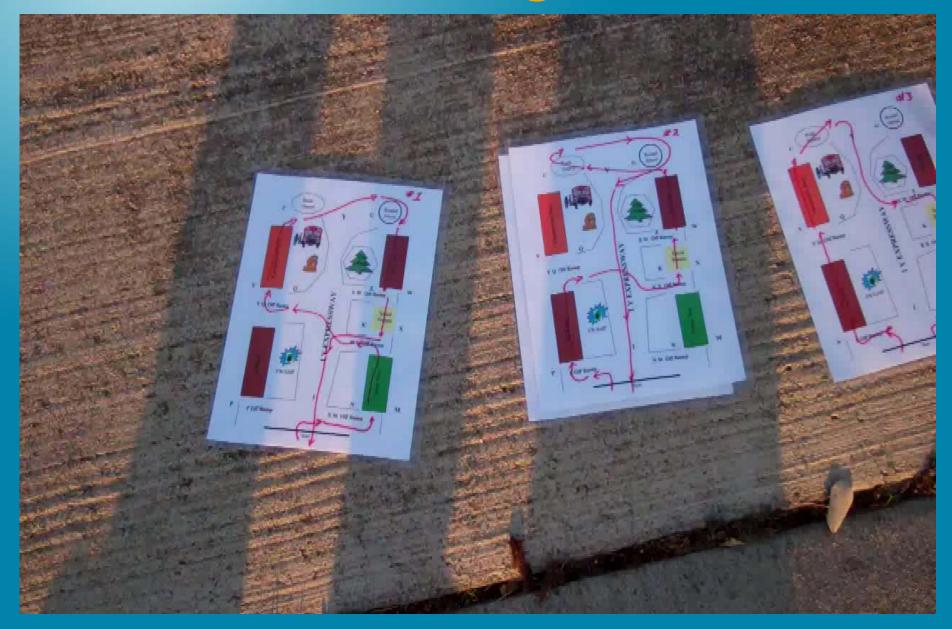
Transporting the Course



Course Setup



Course Diagrams



Running the Course



Course Plus/Delta

Plus

Popular course

Gives real-time situations

Requires work arounds in communication

Delta

Cheap cars do not always work

Batteries have short life

Radio's interfere with each other

Some RC cars remotes drive the other car also

Snap Block Exercise



Snap Block Course Objectives



Instruct:

- 3 -way Communications
- Phonetic Alphabet



Snap Block Directions

Procedure Step

1.Locate the correct SC-100 components.

Parts – Place all specified parts on the table.

- •(1) Slide Switch (S1)
- •(1) Press Switch (S2)
- •(1) Battery Modules (B1) with two "AA" batteries.
- •(3) #1 Snap Conductor
- •(6) #2 Snap Conductor
- •(3) #3 Snap Conductor
- •(1) #5 Snap Conductor
- •(1) #6 Snap Connector
- •(1) Music IC (U1)
- •(1) Alarm IC (U2)
- •(1) Light socket (L1) and Bulb
- •(1) Motor Fan Assembly (M1)
- •(1) Speaker Assembly (SP)
- •(1) Clear Base Assembly Grid

1. Circuit Construction

- 1. Place one battery module (B1) at grid points 7C and 7E on the base assembly grid. Ensure the positive terminal (+) is on point 7C and the negative (-) terminal is on point 7E.
- 2.Insert two "AA" batteries in the Battery Module per the guide for + and -.
- 3 Place Light & Bulb Assembly (L1) at grid points 6B and 6D.
- **4.**Place Speaker Assembly (SP) at grid points 5B and 5D.
- 5. Place Music 1C (U1) at points 2C, 2,D and 4C, 4D.
- **6.** Place Motor Fan Assembly (M1) at grid points 1A and 1C.
- 7. Place one #6 snap conductor at points 2A through 7A.





Human Performance Tic-Tac-Toe



Rules



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- 15 (1)
- .

Question:

According to the S.T.A.R. model, the S stands for:

ANSWER:

Stop







