



FDE443 SENSORY ANALYSIS

Lesson-4



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Controls for Test Room, Product, and Panel

Variables that must be controlled for a reliable sensory test

- Test controls: The test room environment, the use of booths or a round table, the lighting, the room air, the preparation area, the entry and exit areas
- Product controls: The equipment used, the way samples are screened, prepared, numbered, coded, and served
- Panel controls: The procedure to be used by a panelist evaluating the sample in question

Test controls

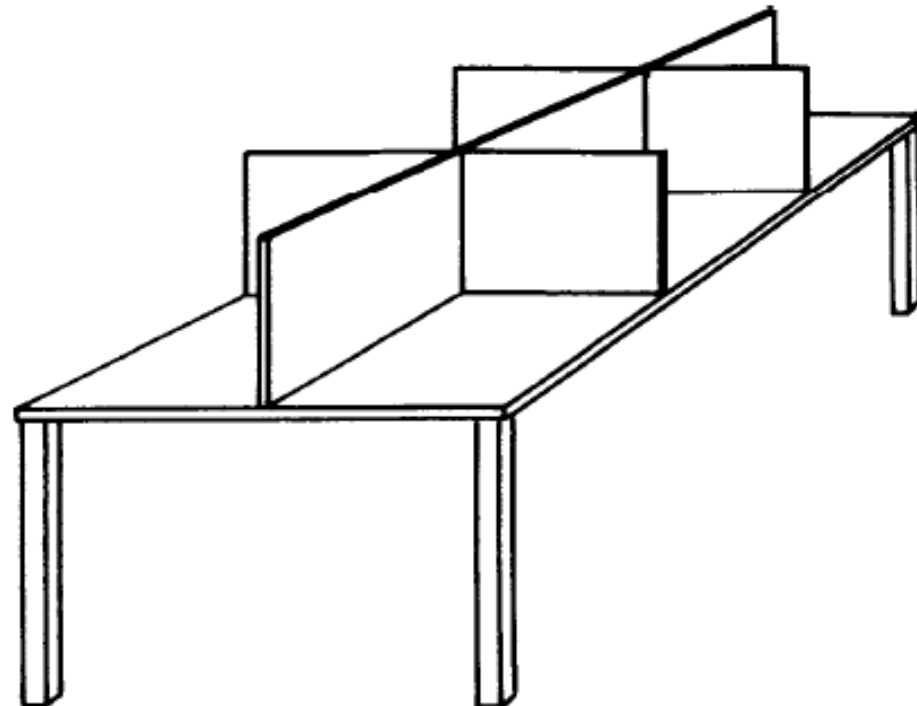
- ✓ The physical setting
- ✓ Disturbing factors
- ✓ The test area-
 - ✓ centrally located
 - ✓ easy to reach
 - ✓ free of crowding and confusion
 - ✓ comfortable, quiet, temperature controlled
 - ✓ free from odors and noise.

Test controls

An ideal sensory laboratory should have;

- (1) a booth area
- (2) a round table area-for training and/or other descriptive tests

- Convenience
- Installations-office area, sample storage area, and data processing



Location of the sensory laboratory

- ✓ The panel test area should be readily accessible to all.
- ✓ A good location is one which most panel members pass on their way to lunch or morning break.
- ✓ If panel members are drawn from the outside, the area should be near the building entrance.
- ✓ Test rooms should be separated by a suitable distance from congested areas because of noise and the opportunity this would provide for unwanted socializing.
- ✓ Test rooms should be away from other noise and from sources of odor such as machine shops, loading docks, production lines, and cafeteria kitchens.



Test room design- the booth

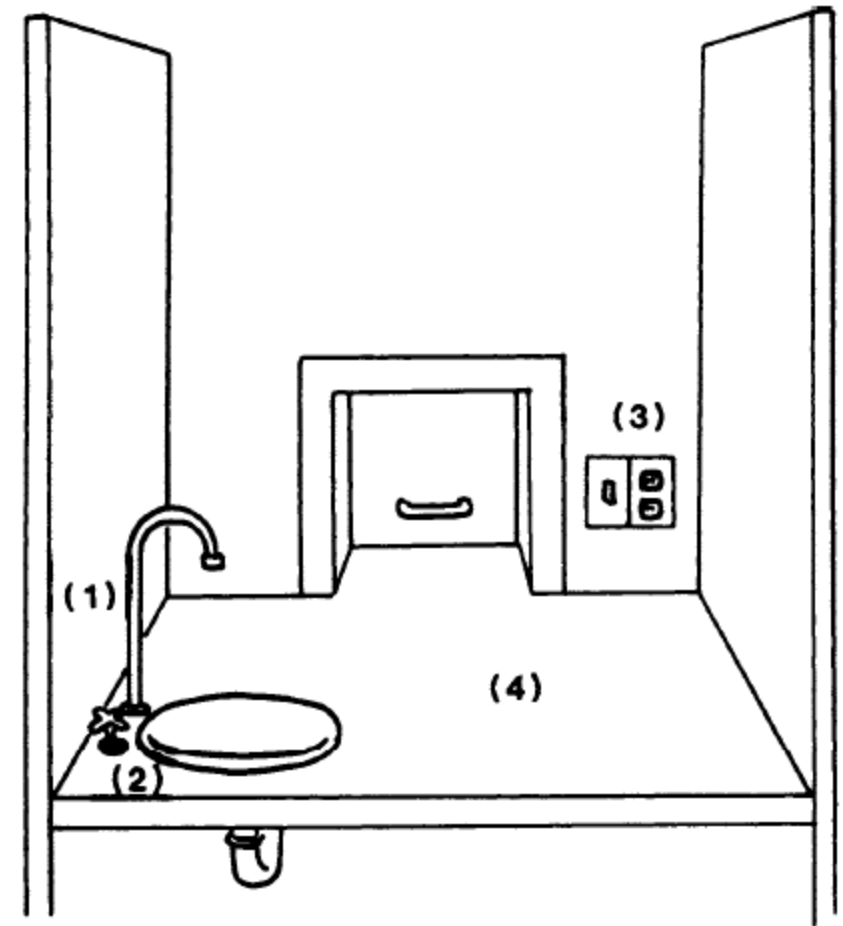
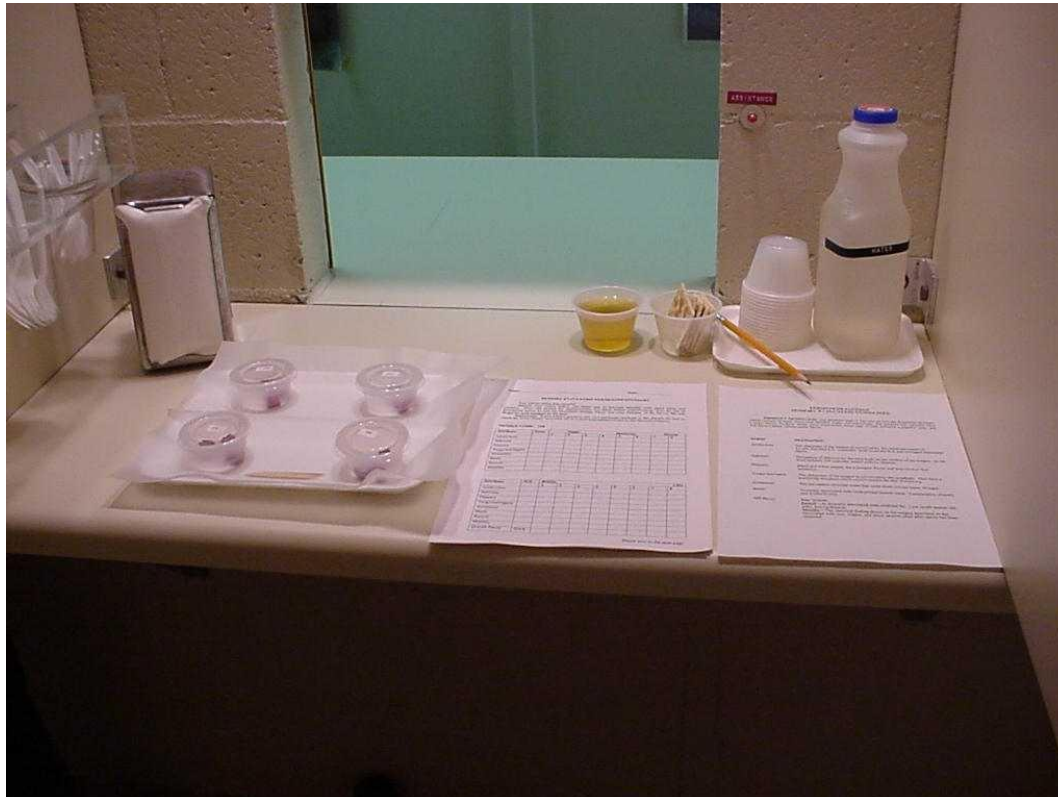
- ✓ It is customary for one sample preparation area to serve six to eight booths.
- ✓ Side-by-side, in an L-shape
- ✓ The L-shape- efficient use of the “work triangle” concept
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Test room design- the booth



Test controls

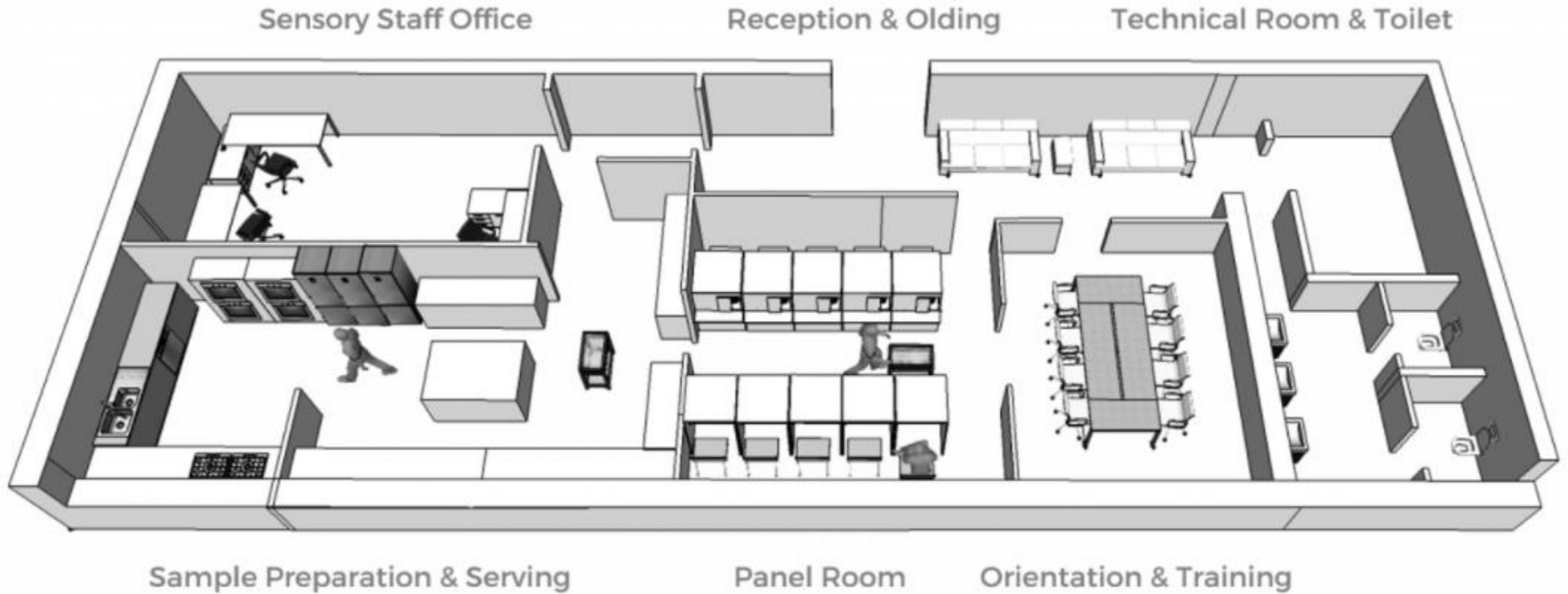
- ✓ A typical booth



(1) Tap water; (2) small sink; (3) electrical outlet and signal switch; (4) table



Test controls /Sensory laboratory controls



❖ **Layout for a sensory laboratory**

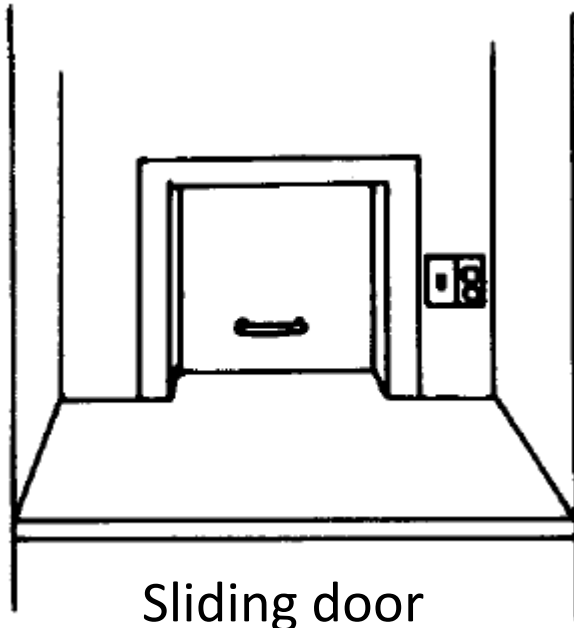
www.smartsensorybox.com



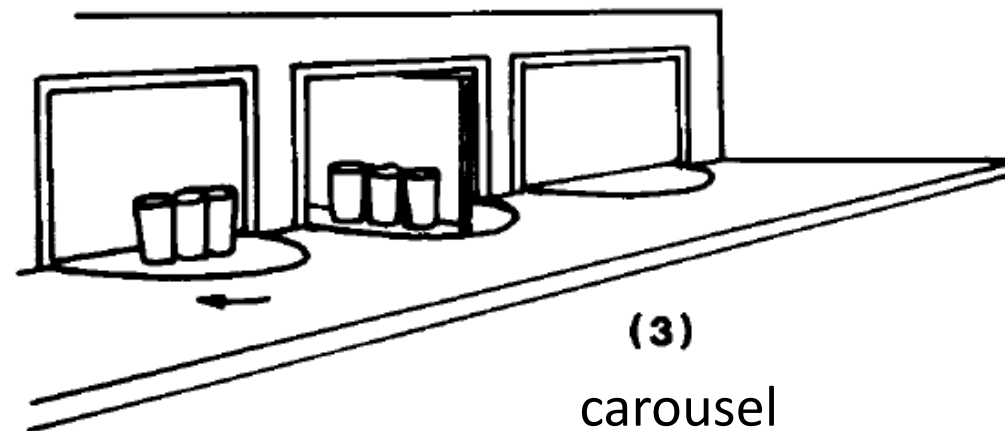
Test controls/Sensory laboratory controls-booths

Hatch types

✓ The hatch types for passing samples to and from the panelists



➤ The sliding door (vertical or horizontal) requires the least space



➤ the breadbox and the carousel are more effective in preventing passage of odors or visible cues from the preparation area to the subject.

