

Assignment 9- Kitchen Planning 3:

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1. a. For Australia and New Zealand students:

According to standard AS/NZS 3000(known as Australia/New Zealand Wiring rule) which is the size of the area around the sink where is not permitted any electric work?

b. For students from other countries: find a wiring rule that applies to your country and send the name and number of legal document it comes from.

According to the Egyptian legal I'm sure there is but I can't find it easily but most of the rules similar to ours, so by searching I found:

The NEC requires that any kitchen countertop that's at least 12 inches wide and 24 inches deep must be equipped with electrical outlets. This applies even if there isn't a nearby sink, such as on a bar or island. Additionally, no point on the wall should be farther than 24 inches from an outlet in either direction (meaning 4 feet total between outlets), so you must have an outlet within 2 feet of the kitchen sink. To protect against electrical shock while working in the kitchen, the NEC also requires countertop outlets to be protected with ground-fault circuit interrupters, or GFCIs. No outlets are allowed in the countertop itself.

2. Knee space for a breakfast 1050mm high bar is minimum:

- a. 300mm m. Yes No
- b. 500mm so you can push the chair under. Yes No
- c. 200mm as you don't need that much room when you seat on higher chairs. Yes No

3. In between cooktop and sink you can have :

- a. A tall fridge only and not fridge-freezer that has only one door with a maximum width of 600mm. Yes No
- b. You can have a narrow and tall pull out pantry as it becomes handy to have stored food close to the sink. Yes No
- c. You can have a tower with two ovens and microwave above as it is handy to have cooktop and oven close by. Yes No
- d. You can't have any full tower between sink and cooktop. Yes No

4. In this module "landing area" means:

- a. A small strip of concrete where planes land on an airport. Yes No
- b. A small safe area where racing cars stop for mechanical checks. Yes No

- c. A counter top area situated beside or in proximity of cooking centers, and it has different sizes. Yes No
- d. The front of the stairs where you start or finish climbing. Yes No

5. Standard bench height is:

- a. 1000mm if a family member is taller than 1800mm. Yes No
- b. 800mm when there are kindergarden children in the family. Yes No
- c. 900mm regardless the height of the family members. Yes No

6. Preparation area has to be:

- a. 900mm wide situated in between sink and cook top. Yes No
- b. 450mm wide , enough for a chopping board and situated by the fridge, so is more convenient. Yes No
- c. at least 1200mm wide and placed wherever there is available space for it. Yes No

7. Using available resources (internet, showrooms, private residences etc.) show at least one example where a rule from this module was ignored. Explain how it was broken and what can be done about it.

Example 1: In these two photos: there isn't enough space between the sink and the cooktop as the rule says.

The solution is to make a bit space between them.



Example 2:



In this kitchen maybe it has the 75mm at the wall end but it isn't protected by flame retardant material. We can complete the tiles

Example 3:



I think this kitchen has poor lighting. We need more lights in evening to feel comfort.

Example 4:



It's a lovely kitchen layout, colors and lights but the breakfast bar doesn't have the 300mm knee space at the 1050mm height.

We have the space to make as the rule says.

Reference list and further research:

About examples where a rule from this module was ignored:

Aya Mounir / 24-July-2017/ 20 great designs for distinctive kitchenettes:

<https://www.homify.com.eg/ideabooks/3694437/20-%D8%AA%D8%B5%D9%85%D9%8A%D9%85-%D8%B1%D8%A7%D8%A6%D8%B9-%D9%84%D9%85%D8%B7%D8%A7%D8%A8%D8%AE-%D8%B5%D8%BA%D9%8A%D8%B1%D8%A9-%D9%85%D9%85%D9%8A%D8%B2%D8%A9>

17 February 2018 / Adding recessed lighting to a kitchen with poor lighting:

https://www.yelp.ca/biz_photos/24-7-electric-victoria-2?select=VRUkFFR39gxzRckyls1K4A

MARWA HASAN/21 – April 2017/ 10 Amazing kitchen designs that will inspire you to design your own kitchen:

<https://www.homify.com.eg/ideabooks/2991186/10-%D8%AA%D8%B5%D8%A7%D9%85%D9%8A%D9%85-%D9%84%D9%85%D8%B7%D8%A7%D8%A8%D8%AE-%D8%B5%D8%BA%D9%8A%D8%B1%D8%A9-%D9%85%D8%A8%D9%87%D8%B1%D8%A9-%D8%B3%D9%88%D9%81-%D8%AA%D9%84%D9%87%D9%85%D9%83-%D9%84%D8%AA%D8%B5%D9%85%D9%8A%D9%85-%D9%85%D8%B7%D8%A8%D8%AE%D9%83>