

Coach type influence on ratings

Rules

Your coach can be offensive, defensive or neutral, which (only) affects your team's performance during the game. An offensive coach improves your attack at the expense of your defence and a defensive coach improves your defence at the expense of your attack. A defensive coach improves defence slightly more than an offensive improves attack, to the same expense. A neutral coach is neither offensive nor defensive, which means he doesn't aid any team part or incur any penalties.

Question

How exactly affects coach type ratings?

Research

Data collection was started in the thread 15427419.1. There were taken data from in-built Hatrick rating predictor: Ratings before and after coach change with exactly same setup. No skill nor drop update between two measuring allowed. Part of gathered data is here: <https://docs.google.com/spreadsheet/ccc?key=0AmLQS2X8xTmZdGJpcml5ZnhCck05UEViSk9zT2tWakE&usp=sharing> , another part I got on my PC (without permission to make them public). You can still add your data, anyway, I believe that we've got final numbers.

Results

Considering neutral coach as a base one, we know that:

Defensive coach has bonus (12.8 ± 0.8)% to defensive ratings and penalty (11.8 ± 0.7)% to offensive ratings.

Offensive coach has penalty (12 ± 0.5)% to defensive ratings and bonus (7.4 ± 0.9)% to offensive ratings.

We know that in the past, when different types of coaches were introduced, also the neutral one got some small bonus. Also, it is quite expectable that real used number are some "simple" ones. Having in mind these two assumptions, we got final numbers:

	Defense	Attack
Defensive coach	+15%	-10%
Neutral coach	+2%	+2%
Offensive coach	-10%	+10%

Consequences

There was confirmed that offensive coach is the “weakest” one, and he is probably valuable as a club coach only in specific circumstances.

Despite it seems on the first sight that defensive coach adds a little more than neutral one, it is reversal in fact. Everything on Hattrick is computed as a ratio, and $1,02/1,15$ is slightly more than $0,9/1,02$ (ratio of attacks and defenses of neutral coach vs. defensive one).

Thanks

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