Special functional : $\phi(x)[\phi(y)] = \int dy\, \phi(y)\, \delta(x-y)$

$$\frac{\delta \phi(x)[\phi(y)]}{\delta \phi(z)} = \lim_{\varepsilon \to 0} \frac{1}{\varepsilon} \left\{ \int dy \left[\phi(y) + \varepsilon\, \delta(z-y) \right] \delta(x-y) - \int dy\, \phi(y) \delta(x-y) \right\}$$

$$= \lim_{\varepsilon \to 0} \frac{1}{\varepsilon} \left\{ \int dy\, \phi(y)\, \delta(x-y) + \varepsilon \int dy\, \delta(z-y) \delta(x-y) - \int dy\, \phi(y) \delta(x-y) \right\}$$

$$= \lim_{\varepsilon \to 0} \int dy\, \delta(z-y)\, \delta(x-y)$$

$$= \delta(z-x) = \delta(x-z)$$

dropping the '$[\phi(y)]$' we get

$$\boxed{\frac{\delta \phi(x)}{\delta \phi(z)} = \delta(x-z)}$$