CLAIMS

1. A method for producing methacrolein and/or methacrylic acid from isobutanol, comprising

(i) a step of feeding an isobutanol-containing gas to a dehydration catalyst layer, to produce an isobutylene-containing gas 1 by dehydration reaction of isobutanol, and

(ii) a step of feeding an isobutylene-containing gas 2 containing at least one portion of the isobutylene-containing gas 1, and an oxygen-containing gas to an oxidation catalyst layer, to produce methacrolein and/or methacrylic acid, by oxidation reaction of isobutylene, wherein

x1/x2 is 0.4 or more when the content rate of isobutylene in the isobutylene-containing gas 1 is x1 (% by mol) and the content rate of isobutylene in the isobutylene-containing gas 2 is x2 (% by mol).

2. The method for producing methacrolein and/or methacrylic acid according to claim 1, wherein the x1/x2 is 0.6 or more.

3. The method for producing methacrolein and/or methacrylic acid according to claim 1 or 2, wherein the content rate of oxygen in the isobutanol-containing gas in the step (i) is 8% by mol or less.

4. The method for producing methacrolein and/or methacrylic acid according to any one of claims 1 to 3, wherein the content rate of oxygen in the isobutanol-containing gas in the step (i) is 5% by mol or less.

5. The method for producing methacrolein and/or methacrylic acid according to any one of claims 1 to 4, wherein the content rate of isobutanol in the isobutanol-containing gas in the step (i) is 5% by mol or more.

6. The method for producing methacrolein and/or methacrylic acid according to any one of claims 1 to 5, wherein a mixed gas obtained by mixing water with the isobutylene-containing