

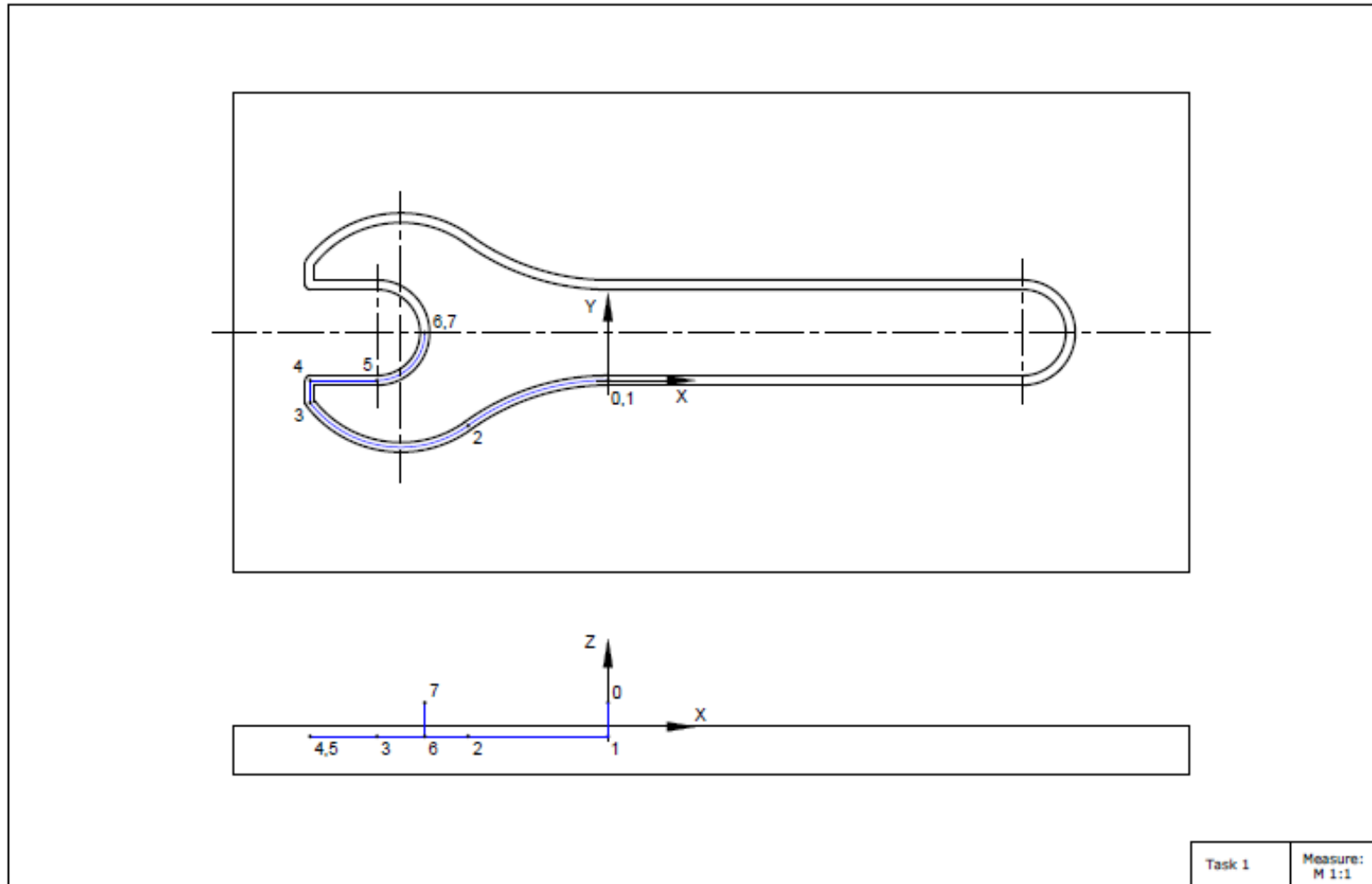
Field of education:
Mechanical engineering

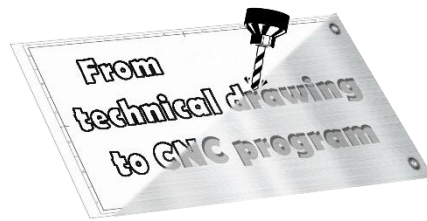
Professional qualification:
CNC operator

Exercise:
**Programming of CNC machine
(solution)**

Variant:
Task 3 – Wrench 1.3.

Solution:





Required written code that should be inserted into the control unit:

G1 Z-2

G3 X-29,265 Y-9,459 R50

G2 X-62,313 Y-4,663 R24

G1 Y0

G1 X-48,313

G3 X-38,313 Y10 R10

G1 Z5

M30

Explanation of the G-code:

%Setting the coordinate system x=0, y=0, z=5; point 0

G1 Z-2 %Tool entry into material; point 1

G3 X-29,265 Y-9,459 R50 %Radial milling; point 2

G2 X-62,313 Y-4,663 R24 %Radial milling; point 3

G1 Y0 %Straight milling; point 4

G1 X-48,313 %Straight milling; point 5

G3 X-38,313 Y10 R10 %Radial milling; point 6

G1 Z5 %Lifting tools from the workpiece; point 7

M30 %End of program