

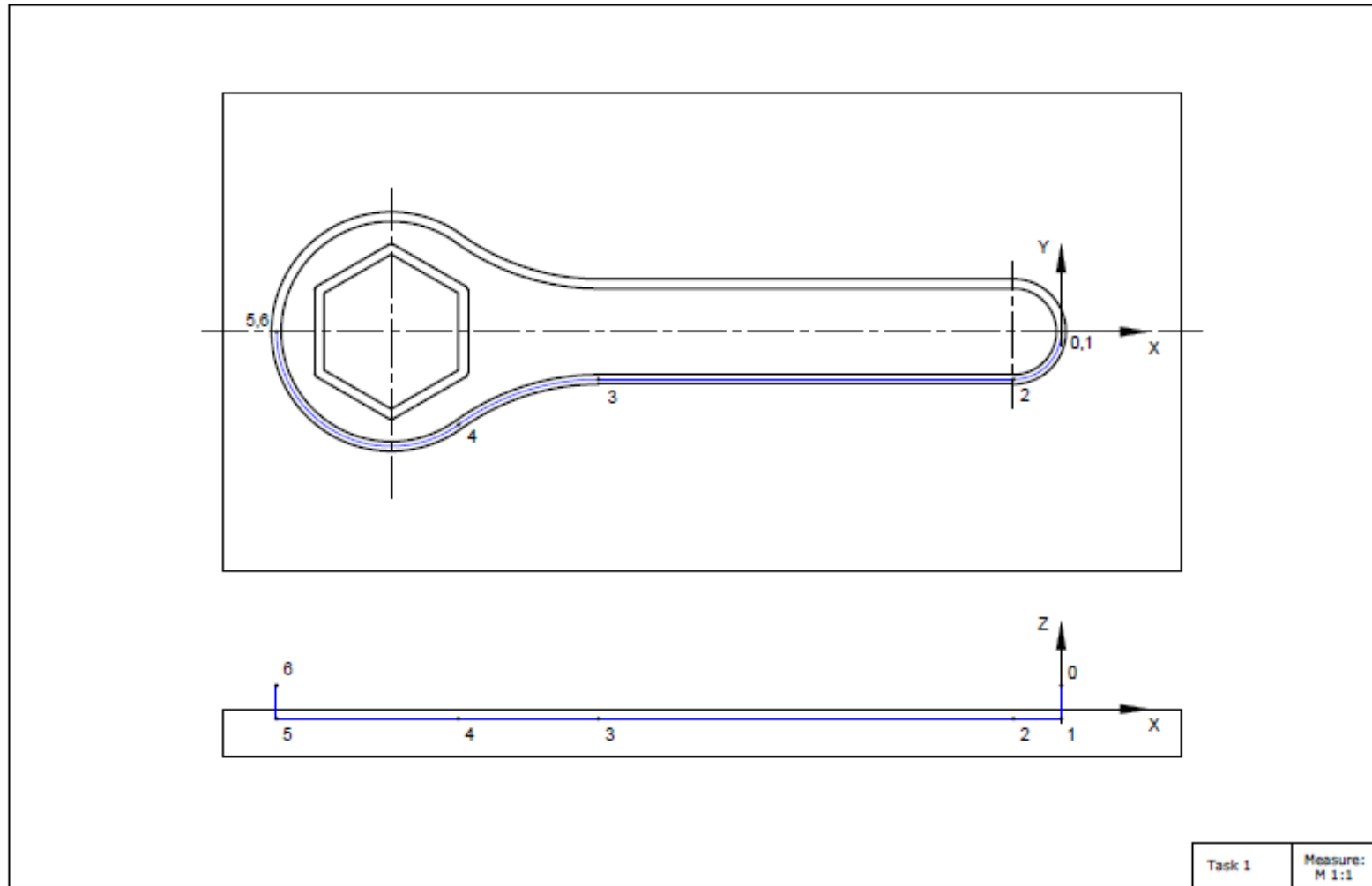
Field of education:
Mechanical engineering

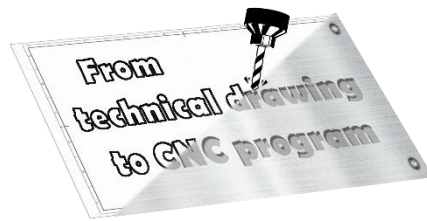
Professional qualification:
CNC operator

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

Variant:
Task 5 – Wrench 2.2.

Solution:





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

G1 Z-2

G2 X-10 Y-10 R10

G1 X-96,687

G3 X125,953 Y-19,459 R50

G2 X164 Y0 R24

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

G2 X-10 Y-10 R10 %Radial milling; point 2

G1 X-96,687 %Straight milling; point 3

G3 X125,953 Y-19,459 R50 %Radial milling; point 4

G2 X164 Y0 R24 %Radial milling; point 5

G1 Z5 %Lifting of tool; point 6

M30 %End of program