Field of education:
Mechanical engineering

Professional qualification:
CNC operator

Exercise:

Programming of CNC machine (solution)

Variant:
Task 4 – Wrench 2.1.

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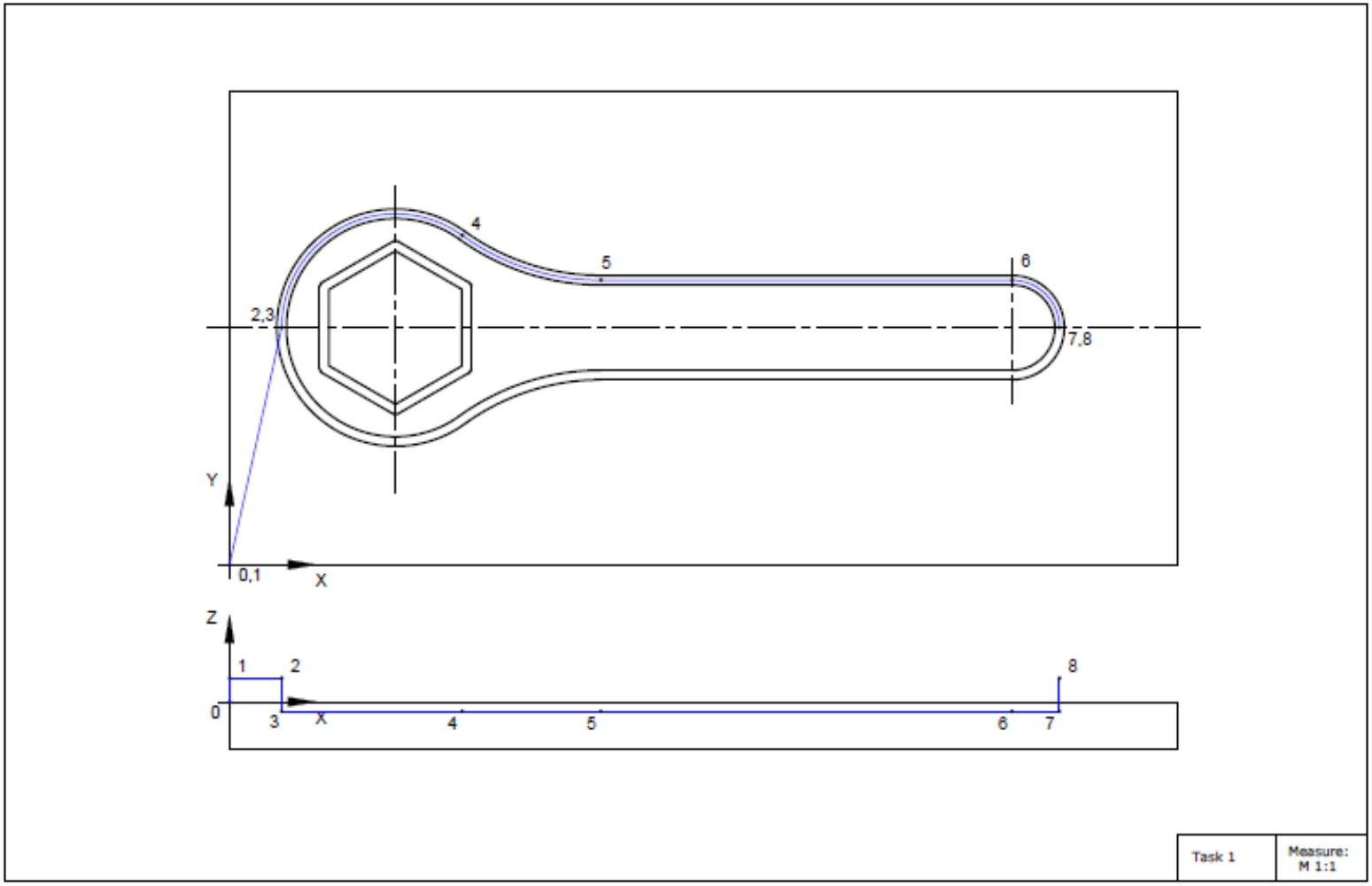
Solution:



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

```
G1 Z5
G0 X11 Y50
G1 Z-2
G2 X49,047 Y69,459 R24
G3 X78,313 Y60 R50
G1 X165
G2 X175 Y50 R10
G1 Z5
M30
```

Explanation of the G-code:

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

G1 Z5 %Lifting of tool; point 1

G0 X11 Y50 %Positioning at the starting point; point 2

G1 Z-2 %Tool entry into material; point 3

G2 X49,047 Y69,459 R24 %Radial milling; point 4

G3 X78,313 Y60 R50 %Radial milling; point 5

G1 X165 %Straight milling; point 6

G2 X175 Y50 R10 %Radial milling; point 7

G1 Z5 %Lifting of tool; point 8

M30 %End of program