

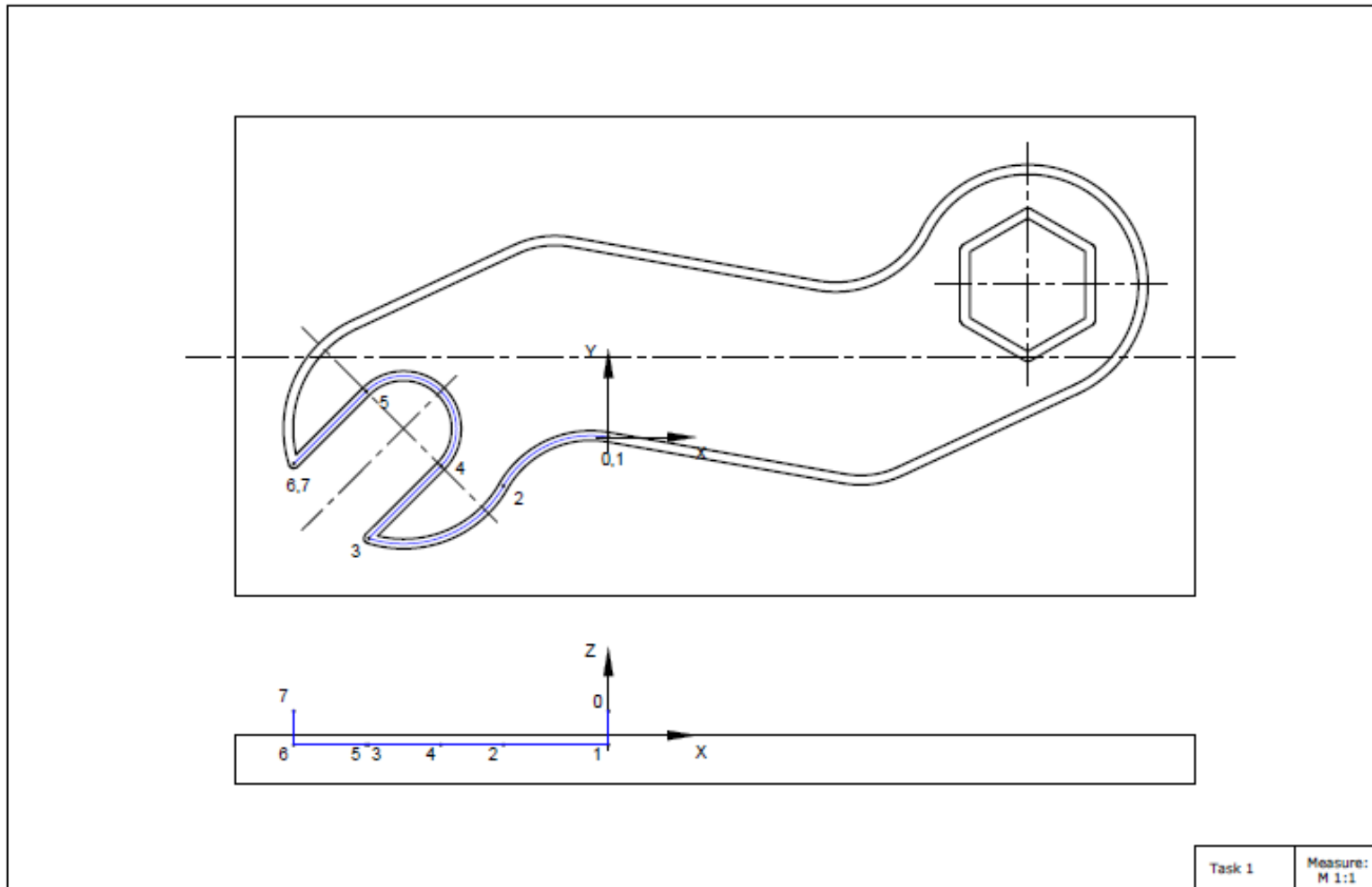
Field of education:
Mechanical engineering

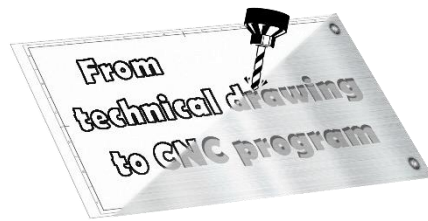
Professional qualification:
CNC operator

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

Variant:
Task 16 – Wrench 5.3.

Solution:





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

G1 Z-2

G2 X-21,848 Y-10,207 R21

G3 X-49,955 Y-21,099 R24

G1 X-34,872 Y-6,016

G2 X-50,428 Y9,541 R11

G1 X-65,512 Y-5,542

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-21,848 Y-10,207 R21 %Radial milling; point 2

G3 X-49,955 Y-21,099 R24 %Radial milling; point 3

G1 X-34,872 Y-6,016 %Straight milling; point 4

G2 X-50,428 Y9,541 R11 %Radial milling; point 5

G1 X-65,512 Y-5,542 %Straight milling; point 6

Z5 %Lifting of tool; point 7

M30 %End of program