Unit 6 - Week 4: Tool wear, Tool life, Tool materials & Tool coatings

Assignment 4

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) Plane wear occurs at?
   - Tool face below cutting edge
   - Tool insert
   - Tool face
   - None of these
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Tool face below cutting edge

2) Which type of advanced Cutting Fluids?
   - Cryogenic Cutting Fluids
   - Nano Cutting Fluids
   - Local liquid based Cutting Fluids
   - All of these
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - All of these

3) Cooler wear occurs mainly on the?
   - Nose part, flank relief face and side relief face of the cutting tool
   - Cutting edge only
   - Flanks of the cutting tool at a short distance from the cutting edge only
   - Faced only
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Flank of the cutting tool at a short distance from the cutting edge only

4) The relation between tool life [L] and cutting speed [v] is 1/2. In this relation, the value of n is dependent upon?
   - Work material
   - Working conditions
   - Type of chip produced
   - Tool material
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Tool material

5) The existing materials for coated carbide tools include?
   - TiC, TiN and NaNO3
   - TiC, TiN
   - TiN and NaNO3
   - TiC and NaNO3
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - TiC, TiN

6) Tool material which is most susceptible to temperature failures?
   - Ceramics
   - HSS
   - Carbides
   - Ceramics
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Ceramics

7) HSS has more toughness than diamond cutting tools.
   - True
   - False
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - False

8) Which of the following is hardest cutting tool?
   - HSS
   - Ceramics
   - Carbides
   - Diamond
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Diamond

9) Which is not characteristic of coated cutting tools?
   - Highly wear-resistant
   - High hardness
   - Chemical stability
   - Low thermal conductivity
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - Highly wear-resistant

10) The tool life is 150 minutes at a cutting speed of 15 m/min. If the tool life is reduced by 45 minutes, then the cutting speed will be?
   - 18 m/min
   - 16 m/min
   - 45 m/min
   - 72 m/min
   
   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   - 45 m/min