Unit 9 - Week 8

Course outline How does an NPTEL online course work? Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Methods to prevent drilling induced damage Non-conventional drilling Process simulation of secondary processing Intelligent drilling of polymer matrix composites Web based tools for polymer matrix composites Ouiz: Assignment 8 Solution For Assignment 8 **Text Transcripts** DOWNLOAD VIDEOS WEEKLY FEEDBACK

Assignment 8		
The due date for submitting this assignment has passed.	Due on 2020-03-25, 23:59	IST.
As per our records you have not submitted this assignment.		
 The objective of a Knowledge Based Tool is to help engineers and scientists with their specific queries regarding of True 	rilling of composite materials.	1 point
O False No, the answer is incorrect.		
Score: 0 Accepted Answers: True		
2) In the modern Rotary Ultrasonic Machines, it is possible to give rotary motion as well as ultrasonic vibration.		1 point
○ True ○ False		
No, the answer is incorrect. Score: 0		
Accepted Answers: True		
Ultrasonic machining is typically used on brittle materials;		1 point
○ True ○ False		
No, the answer is incorrect. Score: 0		
Accepted Answers: True		
Advance techniques of hole making in polymer based composites are;		1 point
Helical feed method Ultrasonic assisted drilling		
Wood-pecker cycle O 1, 2 and 3		
2 and 3		
○ 1 and 3 ○ 1 and 2		
No, the answer is incorrect. Score: 0		
Accepted Answers: 1, 2 and 3		
5) The CORRECT statements considering the drilling of polymer based composites are; Use of backup plate reduces the drilling induced damage		1 point
Use of backup plate improves the quality of hole produced Use of backup plate mainly reduces the peel-up type of delamination		
○ 1 and 3 ○ 2 and 3		
① 1 and 2		
O 1, 2 and 3 No, the answer is incorrect.		
Score: 0 Accepted Answers: 1 and 2		
6) Advantages of helical feed method of drilling includes; Chip removal is better Increase in thrust force		1 point
High quality hole produced Decrease in drilling induced damage		
○ 1, 3 and 4 ○ 1, 2 and 3		
○ 1, 2, 3 and 4 ○ 1, 2 and 4		
No, the answer is incorrect. Score: 0		
Accepted Answers: 1, 3 and 4		
7) Choose the correct statement (s);		1 point
Vibration assisted drilling significantly improves chip expulsion In rotary ultrasonic machining (tool rotating), tool is provided with the ultrasonic vibration as well as rotation		
Vibration assisted drilling improve the quality of holes All of these		
No, the answer is incorrect. Score: 0		
Accepted Answers: All of these		
8) The green guide tool works by using a dynamic questions process which calculates a final green guide rating base	ed upon the answers provided.	1 point
○ True ○ False		
No, the answer is incorrect. Score: 0		
Accepted Answers: True		
9) In vibration assisted drilling, the contact between the tool and work piece is intermittent.		1 point
○ True		
No, the answer is incorrect.		
Score: 0 Accepted Answers: True		
10) Ultrasonic drilling technique can be used for drilling of;		1 point
O Polypropylene based composites		
Epoxy based composites Both A and B None of these		
No, the answer is incorrect. Score: 0		
Accepted Answers: Epoxy based composites		