						FAQ
Jnit 3 - Wee	ek 2					[
Register for Certification exam	Assian	ement 2				
Course outline	The due date	for submitting this ass cords you have not su	-	passed. Due on 202	19-03-13, 23	
How to access the portal	1) According to	o Hall-Petch equation (w	here σy is yie	ld strength and d is gra	in size)	1 poi
Week 1	Ο σyα1					
Week 2	ο σ σ χα ∛					
Weldability of	🔘 σy α ά	ł				
Work Hardenable &		ver is incorrect.				
Precipitation Strengthened	Score: 0					
Metals	Accepted Ar σy α 1/√d	iswers:				
 Weldability of Precipitation Strengthened 	2) Weld therma	al cycle shows relations	hip between			1 poi
Metals	Tempe	erature and location				
Weldability of Metale	Tempe	erature and time				
Metals Strengthened		erature and distance				
by Grain Refinement,	Tempe	erature and heat input				
dispersion Hardening and		ver is incorrect.				
Transformation	Score: 0 Accepted Ar	newere.				
Hardening	Temperature					
Weldability of Transformation Hardening	3) Main cause	of increase in strength b	by precipitation	n hardening is		1 poi
Metals	Barrie	r to dislocation moveme	nt			
Weldability of Metals:	Increa	ase in number of dislocat	tion			
Combination of	Easy of	dislocation movement				
Strengthening Mechanisms	🔍 Few n	umber of dislocations				

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Weldability of Metals - - Unit 3 - Week 2

Week 3	De Ageing, solutionizing then quenching	
Week 4	Solutionizing, quenching then ageing	
	Ageing, quenching then solutionizing	
Week 5	Solutionizing, ageing then quenching	
Week 6	No, the answer is incorrect.	
Week 7	Score: 0	à
WEEK /	Accepted Answers: Solutionizing, quenching then ageing	
Week 8	5) Dispersion strengthened metals if welded by fusion welding then commonly encountered 1 point	6
DOWNLOAD	problems include	
VIDEOS	(i) Thermal damage of reinforcing agent	3
Text Transcript	(ii) Wetting issue (iii) Absence of metallurgical bonding	à
Interaction Session	U only)
	I and II	
	U II and III	
	All of above	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: All of above	
	6) Decreases in hardness and strength in weld and heat affected zone of precipitate hardened <i>1 poin</i>t	
	metals is attributed to	
	Dissolution of the precipitates	
	Recombining of precipitates	
	Growth of the precipitates	
	Softening of precipitates	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	Dissolution of the precipitates	
	7) Characteristic difference of weld thermal cycle over heat treatment cycle is 1 point	t
	(i) High peak temperature	
	(ii) Slow heating and cooling rate(iii) High heating and cooling rate	
	(iv) Shorter high temperature retention period	
	I and II	
	I and II	
	All of above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	I,III and IV	
	8) Austenitic and Hadfield steels are used in cavitation prone region because of 1 point	t

Cov cost	
High corrosion resistance	
Conversion of Austenite into Martensite due to deformation induced transformations	
High strength	
No, the answer is incorrect. Score: 0	
Accepted Answers: Conversion of Austenite into Martensite due to deformation induced transformations	
9) Among all metal strengthening approaches, higher yield strength will be realized in case of	1 point
Solid solution strengthening Al alloy	
Work strengthening Al alloy	
Precipitation strengthening Al alloy	(MAG)
All of above	
No, the answer is incorrect. Score: 0	
Accepted Answers: Precipitation strengthening AI alloy	
10) oss of toughness in weld and heat affected zone called as	1 point
Reheat cracking	
Weld distortion	
Weld decay	
Embrittlement	
No, the answer is incorrect. Score: 0	
Accepted Answers: Embrittlement	

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End