Name :	• • • • • • • • • • • • • • • • • • •	docx.com/products iples-and-applications-8e-jeffus Class	S Dat e:
Chapter 1 In	ntroduction to Welding		_
1. During wha	at ancient time period did mankind begin to	o join metals?	
a.		•	
b	. The Industrial Revolution		
c.	. During World War I		
d	. During the American Revolution		
ANSWER:		a	
POINTS:		1	
REFERENCE	'S:	Page 3, Indroduction	
QUESTION T	YPE:	Multiple Choice	
HAS VARIAB	LES:	False	
DATE CREAT	TED:	12/28/2015 3:31 PM	
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	he sand used for in the direct casting proce	C	
	was used to form the desired shape of the p	· ·	
	was used as an insulation to keep the metal	from overheating.	
	supported the base plate.		
	was melted into glass to form a mold for the	e hot metal to be cast.	
ANSWER:		a	
POINTS:		1	
REFERENCE		Page 3-4, Introduction	
QUESTION T		Multiple Choice	
HAS VARIAB		False	
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3. The term coalescence refers to ___

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a. gas welding of pipe

b. the type of welding performed in space

c. the growing together of the grain structure

d. the newest type of welding processes

ANSWER: c POINTS: 1

REFERENCES: Page 5, Welding Defined

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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- 4. What process that was used to join pieces of iron together was introduced during the Industrial Revolution (1750-1850)?
 - a. Forge welding or hammer welding

Name .			Class	
Chapter	1 Intr	oduction to V	Velding	
	b.	Resistance w	elding	
	c.	Fusion weldi	-	
	d.	Oxyacetylene		
ANSWER:				a
POINTS:				1
REFEREN	VCES:			Page 3-4, Introduction
QUESTIO	N TYP	PE:		Multiple Choice
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DATE CR	<i>EATEI</i>	D:		12/28/2015 3:34 PM
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5 is	a type	of welding.		
	a.		al arc welding	
	b.	^	gsten arc welding	
c. Gas tungs			sten arc welding	
	d.	Plastic co	ore arc welding	
ANSWER:	•		c	
POINTS:			1	
REFERENCES:		Page 7, V	Welding and Cutting Processes	
QUESTION TYPE:		Multiple	Choice	
HAS VARI	IABLE	S:	False	
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DATE MC	DIFIE	ED:	12/28/20	15 3:35 PM
6 is	the mo		be of fuel gas used for	or oxyfuel welding.
		a. 1-	MAPP	
		b.	Acetylene	
		c. d.	Propane Oxygen	
ANSWER:		a.	b	
<i>POINTS:</i>			1	
	JCFS.		_	ylene Welding, Brazing, and Cutting
REFERENCES: QUESTION TYPE:		Multiple Choice	yiene weiding, Brazing, and Cutting	
HAS VARIABLES:		False		
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DATE CREATED:		12/28/2015 3:37		
Dill MC		ш.	12/20/2013 3.37	1 141
7. Oxyace		_	referred to as	
a	_	s welding or to	-	
b	_		ding, or just gas wel	lding
C	e ga	s flux cored are	e welding	

d. shielded metal arc welding or torch arc welding

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:	:e:e:
Chapter 1 Introduc	tion to Welding
ANSWER:	а
POINTS:	1
REFERENCES:	Page 7, Oxyacetylene Welding, Brazing, and Cutting
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:37 PM
DATE MODIFIED:	12/28/2015 3:37 PM
8. An advantage of	welding is that a variety of metal types and metal thicknesses can be joined with one machine.
a.	oxyacetylene
b.	shielded metal arc
c.	gas metal arc
d.	flux cored arc
ANSWER:	b
POINTS:	1
REFERENCES:	Page 8, Shielded Metal Arc Welding (SMAW)
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:38 PM
DATE MODIFIED:	12/28/2015 3:38 PM
· —	welding is slower and requires a higher skill level as compared to other manual welding processes, is use it can be used to make extremely high-quality welds in applications where weld integrity is
	a. OAW
	b. SMAW
	c. GMAW
	d. GTAW
ANSWER:	d
POINTS:	1
REFERENCES:	Page 9, Gas Tungsten Arc Welding (GTAW)
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:38 PM
DATE MODIFIED:	12/28/2015 3:39 PM
10 welding can only a few changes in	be used to weld metal ranging in thickness from thin-gauge sheet metal to heavy plate by making the welding setup.
a.	Oxyacetylene
b.	Shielded metal arc
c.	Gas metal arc
d.	Flux cored arc

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Name :			Class :	Dat e:
Chapter 1 Introdu	action to V	Welding		
ANSWER:		С		
POINTS:		1		
REFERENCES:		Page 9-10, Ga	s Metal Arc Welding (GMA	AW)
QUESTION TYPE:		Multiple Choi	- `	
HAS VARIABLES:		False		
DATE CREATED:		12/28/2015 3:	39 PM	
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11 welding is postweld cleanup.	extremely 1	ast and economical b	ecause it can produce long	welds rapidly that require very little
	a.	Oxyacetylene		
	b.	SMAW		
	c.	GMAW		
	d.	GTAW		
ANSWER:		c		
POINTS:		1		
REFERENCES:		Pages 9-10, Ga	as Metal Arc Welding (GM	AW)
QUESTION TYPE:		Multiple Choice	ce	
HAS VARIABLES:		False		
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12. GMAW and		are the first choice for d are flexible and ver		because these processes are cost effective
produce mgn quant	a.	FCAW	sume.	
	b.	OAW		
	c.	SMAW		
	d.	GTAW		
ANSWER:		a		
POINTS:		1		
REFERENCES:		Page 10, Flu	x Cored Arc Welding (FCA	(W)
QUESTION TYPE:		Multiple Cho	- ,	,
HAS VARIABLES:		False		
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13 cutting use	es a stiff, hig	ghly ionized, extreme	ly hot column of gas to almo	ost instantly vaporize the metal being cut
	a.	Laser beam		
	b.	Air carbon arc		
	c.	Oxyfuel gas		
	d.	Plasma arc		
ANSWER:		Ċ		

Name :			Class :	Dat e:		
Chapter 1	Intro	oduction to Weldin	ng			
POINTS:			1			
REFEREN	CES:		Page 10, Plasma Arc Cuttir	ng		
QUESTION		E:	Multiple Choice			
HAS VARIA			False			
DATE CRE	EATEL) :	12/28/2015 3:41 PM			
DATE MODIFIED:		D:	12/28/2015 3:42 PM			
		ne joining process, one ill be a permanent stru		as whether the weldment is only needed to		
	a.	quality requirements	:			
	b.	appearance of the fir	nished product			
	c.	materials to be used				
	d.	size of the parts to b	e joined			
ANSWER:			b			
POINTS:			1			
REFEREN	CES:		Page 11, Selection of the Joining Prod	cess		
QUESTION TYPE:		E:	Multiple Choice			
HAS VARIABLES:		<i>:</i> :	False			
DATE CREATED:) <u>:</u>	12/28/2015 3:42 PM			
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			pment, or to join a pipeline.	as whether the weld will be used on a piece		
	b.	appearance of the fir				
	c.	materials to be used	•			
	d.	size of the parts to b	e joined			
ANSWER:		•	a			
POINTS:			1			
REFEREN	CES:		Page 11, Selection of the Joining Prod	cess		
QUESTION	V TYP	E:	Multiple Choice			
HAS VARIA	ABLES	<i>:</i> :	False	•		
DATE CRE	EATEL) <u>:</u>	12/28/2015 3:42 PM			
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16. Which	of the	3.6 1 11	weld metal only requires the welder to m	nanipulate the welding gun?		
	b.	Semiautomatic	Welding			
	c.	Automatic wel	ding			
	d.	Automated we	lding			
ANSWER:			b			
POINTS:			1			

Name :		Class :	Dat e:
Chapter 1 Intr	oduction to Weldir	ng	
REFERENCES:		Page 11, Selection of the Joining Process	
QUESTION TYPE: Multiple Choice			
HAS VARIABLE		False	
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<i>DATE MODIFIED:</i> 12/28/2015 3:44 PM			
	the joining process, on or an exotic alloy.	e consideration relates to the, such as whether	the parts are made out of a
a.	quality requirements	S	
b.	appearance of the fir	nished product	
c.	materials to be joined	d	
d.	size of the parts to b	e joined	
ANSWER:		c	
POINTS:		1	
REFERENCES:		Page 11, Selection of the Joining Process	
QUESTION TYP	PE:	Multiple Choice	
HAS VARIABLES:		False	
DATE CREATED:		12/28/2015 3:44 PM	
<i>DATE MODIFIED:</i> 12/28/2015 3:45 PM			
18. Tack welder	s		
a. clean	slag from the welds, a	nd help position weldments	
-		tic equipment used to make welds	
	-	king small welds to hold parts in place	
C	n, specify, and oversee	the construction of complex weldments	
ANSWER:	c		
POINTS:	1		
REFERENCES:		age 12, Occupational Opportunities in Welding	
QUESTION TYP		Iultiple Choice	
HAS VARIABLE		alse	
DATE CREATE		2/28/2015 3:45 PM	
DATE MODIFIED: 12/28/2015 3:45 PM			
19. Welders' hel			
	-	nd help position weldments	
-		tic equipment used to make welds	
c. often help the welder by making small welds to hold parts in place			
d. design, specify, and oversee the construction of complex weld		the construction of complex weldments	
ANSWER:	a		
POINTS:	1		

Page 12, Occupational Opportunities in Welding

Multiple Choice

REFERENCES:

QUESTION TYPE:

Name :	Class :
Chapter 1 Introduction t	o Welding
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:45 PM
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	welds, and help position weldments or automatic equipment used to make welds
c. often help the weld	er by making small welds to hold parts in place
d. demonstrate good i	management skills by planning jobs and assigning workers
ANSWER:	b
POINTS:	1
REFERENCES:	Page 12, Occupational Opportunities in Welding
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:46 PM
DATE MODIFIED:	12/28/2015 3:47 PM
b. operate machines of	s of skill and knowledge of small-business management r automatic equipment used to make welds s in their proper places and make ready for the tack welders
-	nanagement skills by planning jobs and assigning workers
ANSWER:	d
POINTS:	1
REFERENCES:	Page 12, Occupational Opportunities in Welding
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	12/28/2015 3:47 PM
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b. operate machines ofc. often help the weld	of skill and knowledge of small business management or automatic equipment used to make welds ler by making small welds to hold parts in place management skills by planning jobs and assigning workers
ANSWER:	a
POINTS:	a 1
REFERENCES:	Pages 12-13, Occupational Opportunities in Welding

Multiple Choice

12/28/2015 3:47 PM

12/28/2015 3:47 PM

False

QUESTION TYPE:

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Name :		Class	Dat e:
Chapter 1 Introduction	to Welding		
23. Welder assemblers	·		
a. have a high degree	of skill and knowledge	of small business managem	ent
b. operate machines of	or automatic equipment	used to make welds	
c. position all the par	ts in their proper places	and make ready for the tack	welders
d. demonstrate good	management skills by pl	anning jobs and assigning v	vorkers
ANSWER:	c		
POINTS:	1		
REFERENCES:	Page 12, Occup	oational Opportunities in We	elding
QUESTION TYPE:	Multiple Choic	e	
HAS VARIABLES:	False		
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DATE MODIFIED:	12/28/2015 3:4	9 PM	
24. A must be correctly finished welding.	y applied so that it is stro	ong enough to hold the asser	mbly and still not interfere with the
a.	forged weld		
b.	stick weld		
c.	tack weld		
d.	rod weld		
ANSWER:	c		
POINTS:	1		
REFERENCES:	Page 12, Occup	oational Opportunities in W	elding
QUESTION TYPE:	Multiple Choic	e	
HAS VARIABLES:	False		
DATE CREATED:	12/28/2015 3:4	9 PM	
DATE MODIFIED:	12/28/2015 3:4	9 PM	
25. must be able to into	erpret blueprints and wel	ding procedures.	
a.	Tack welders		
b.	Weld shop owners		
c.	Welder's helpers		
d.	Welder assemblers		
ANSWER:	d		
POINTS:	1		
REFERENCES:	Page 12, Occup	oational Opportunities in We	elding
QUESTION TYPE:	Multiple Choic		-
HAS VARIABLES:	False		
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DATE MODIFIED:	12/29/2015 9:1		
26. Welding engineers			

Name :	Class :	Dat e:
Chapter 1 Introduction	on to Welding	
a. clean slag from	n the welds, and help position weldments.	
C	parts in their proper places and make ready for the tack welders	S.
-	welder by making small welds to hold parts in place.	
•	, and oversee the construction of complex weldments.	
ANSWER:	d	
POINTS:	1	
REFERENCES:	Pages 12-13, Occupational Opportunities in Welding	Ţ
QUESTION TYPE:	Multiple Choice	•
HAS VARIABLES:	False	
DATE CREATED:	12/29/2015 9:10 AM	
DATE MODIFIED:	12/29/2015 9:12 AM	
27. A is required to communication, and des	o know all of the welding process and metallurgy as well as having skills.	e good math, reading,
a.	welding engineer	
b.	welding inspector	
c.	welder's helper	
d.	welder operator	
ANSWER:	a	
POINTS:	1	
REFERENCES:	Pages 12-13, Occupational Opportunities in Welding	5
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	12/29/2015 9:12 AM	
DATE MODIFIED:	12/29/2015 9:13 AM	
-	must be able to pass a performance test to specific code or	standard.
-	ngineer, the welder, and the welding operator	
· ·	ngineer, the welding inspector, and the welding shop owner	
	e welding operator, and the tack welder	
	perator, the tack welder, and the welder's helper	
ANSWER:	c	
POINTS:	1	
REFERENCES:	Page 12, Occupational Opportunities in Welding	
<i>QUESTION TYPE:</i>	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	12/29/2015 9:13 AM	
DATE MODIFIED:	12/29/2015 9:14 AM	
	the actual work for the engineer by providing the engineer with	n progress reports as well as
chemical, physical, and a a.	weld operator	
u.		

Name :		Class :	Dat e:
Chapter 1 Introduction to) Welding		
b.	foreman		
c.	tack welder		
d.	technician		
ANSWER:	d		
POINTS:	1		
REFERENCES:	Pages 12-13, 0	Occupational Opportunities in We	lding
QUESTION TYPE:	Multiple Choi	ce	-
HAS VARIABLES:	False		
DATE CREATED:	12/29/2015 9:	14 AM	
DATE MODIFIED:	12/29/2015 9:	15 AM	
30. In addition to welding ski a. Teamwork, leader b. Honesty and organi	ship, and integrity	elder must possess what workplace	e skills?
		e Equal Employment Opportunity	/ law
d. All of the above	8	1 1 3 11 3	
ANSWER:		d	
POINTS:		1	
REFERENCES:		Page 14, Job-Related Skills	
QUESTION TYPE:		Multiple Choice	
HAS VARIABLES:		False	
DATE CREATED:		12/29/2015 9:15 AM	
DATE MODIFIED:		12/29/2015 9:15 AM	
31. A(n)heating the materials to the reapplication of pressure alone. ANSWER:	equired welding tem	a localized coalescence of metals peratures, with or without the app the use of filler materials. weld	•
POINTS:		1	
REFERENCES:		Page 5, Welding	Defined
QUESTION TYPE:		Completion	
HAS VARIABLES:		False	
STUDENT ENTRY MODE:		Basic	
DATE CREATED:		12/29/2015 9:16	AM
DATE MODIFIED:		12/29/2015 9:16	
			arface of a piece of steel to a point of steel to burn away, leaving a gap or
ANSWER:		Oxyfuel gas	
POINTS:		1	
REFERENCES:		Page 10, Oxyfuel Gas	Cutting

Name :	Class :	Dat _e:
Chapter 1 Introduction to V	Velding	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:16 AM	
DATE MODIFIED:	12/29/2015 9:16 AM	
33. In a(n)	process, the welder is required to manipulate	the entire process.
ANSWER:	manual	
POINTS:	1	
REFERENCES:	Page 11, Selection of the Joinin	ng Process
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:17 AM	
DATE MODIFIED:	12/29/2015 9:17 AM	
34. In a(n) manually by the welder.	process, filler metal is added automatically, a	and all other manipulation is done
ANSWER:	semiautomatic	
POINTS:	1	
REFERENCES:	Page 11, Selection of the Joinir	ng Process
QUESTION TYPE:	Completion	15 1100000
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:17 AM	
DATE MODIFIED:	12/29/2015 9:17 AM	
35. In a(n)operator.	process, operations are done mechanically ur	nder the observation of a welding
ANSWER:	machine	
POINTS:	1	
REFERENCES:	Page 11, Selection of the Joinin	ng Process
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:18 AM	
DATE MODIFIED:	12/29/2015 9:18 AM	
36. In a(n)	process, operations are performed by a mach	ine that has been programmed to do an
entire operation without interact	*	
ANSWER:	automatic	
POINTS:	1	
REFERENCES:	Page 12, Selection of the Joinin	ng Process

Name :	Class :	Dat e:
Chapter 1 Introduction to Wel	ding	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:18 AM	
DATE MODIFIED:	12/29/2015 9:18 AM	
37. In a(n)	_ process operations are performed by a robot o	or machine that is programmed flexibly
to do a variety of processes.		
ANSWER:	automated	
POINTS:	1	
REFERENCES:	Page 12, Selection of the Joining	g Process
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:18 AM	
DATE MODIFIED:	12/29/2015 9:19 AM	
38. Welder	_ position all parts in their proper positions and	I make ready for the tack welders.
ANOTEK.	fitters assemblers	
POINTS:	1	
REFERENCES:	Page 12, Occupational Opportunities	in Welding
QUESTION TYPE:	Completion	C
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:19 AM	
DATE MODIFIED:	12/29/2015 9:19 AM	
	are employed in some welding shops to clean	a slag from the welds and help move and
position weldments for the welder.		
ANSWER:	helpers	
POINTS:	1	
REFERENCES:	Page 12, Occupational Opportunities	in Welding
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
STUDENT ENTRY MODE:	Basic	
DATE CREATED:	12/29/2015 9:19 AM	
DATE MODIFIED:	12/29/2015 9:19 AM	
40. Welding	operate machines or automatic equipment us	sed to make welds.
ANSWER:	operators	

1

POINTS:

Name	Class	Dat
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Chapter 1 Introduction to Welding

REFERENCES: Page 12, Occupational Opportunities in Welding

QUESTION TYPE: Completion

HAS VARIABLES: False STUDENT ENTRY MODE: Basic

DATE CREATED: 12/29/2015 9:20 AM *DATE MODIFIED:* 12/29/2015 9:20 AM

41. When was forge welding introduced, and what does it involve?

ANSWER: The Industrial Revolution, from 1750 to 1850, introduced a method of joining pieces of iron together

known as forge welding or hammer welding. This process involved the use of a forge to heat the metal to a soft, plastic temperature. The ends of the iron were then placed together and hammered

until fusion took place.

POINTS: 1

REFERENCES: Page 3-4, Introduction QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

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DATE CREATED: 12/29/2015 9:20 AM DATE MODIFIED: 12/29/2015 9:20 AM

42. Define the term weld.

ANSWER: A weld is defined by the American Welding Society (AWS) as "a localized coalescence (the

fusion or growing together of the grain structure of the materials being welded) of metals or nonmetals produced either by heating the materials to the required welding temperatures, with or without the application of pressure, or by the application of pressure alone, and with

or without the use of filler materials.

POINTS: 1

REFERENCES: Page 5, Welding Defined *QUESTION TYPE*: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 12/29/2015 9:21 AM DATE MODIFIED: 12/29/2015 9:21 AM

43. Define the term welding.

ANSWER: Welding is defined as "a joining process that produces coalescence of materials by heating

them to the welding temperature, with or without the application of pressure or by the

application of pressure alone, and with or without the use of filler metal."

POINTS: 1

REFERENCES: Page 5, Welding Defined OUESTION TYPE: Subjective Short Answer

Name Class Dat : e:

Chapter 1 Introduction to Welding

HAS VARIABLES: False STUDENT ENTRY Basic

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DATE CREATED: 12/29/2015 9:21 AM DATE MODIFIED: 12/29/2015 9:23 AM

44. Describe the shielded metal arc welding (SMAW) process.

ANSWER: Shielded metal arc welding (SMAW) uses a 14-in. (355.6-mm) -long consumable stick electrode that

conducts the welding current from the electrode holder to the work, and as the arc melts the end of the electrode away, it becomes part of the weld metal. The welding arc vaporizes the solid flux that covers the electrode so that it forms an expanding gaseous cloud to protect the molten weld metal. In addition to fluxes protecting molten weld metal, they also perform a number of beneficial functions

for the weld, depending on the type of electrode being used.

POINTS: 1

REFERENCES: Page 7, Oxyacetylene Welding, Brazing, and Cutting

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 12/29/2015 9:21 AM DATE MODIFIED: 12/29/2015 9:23 AM

45. List the 5 factors that must be considered when choosing a joining process.

ANSWER: Availability of equipment—Repetitiveness of the operation—Quality requirements—

Location of work—Materials to be joined—Appearance of the finished product—Size of the parts to be joined—Time available for work—Skill or experience of workers—Cost of

materials—Code or specification requirements.

POINTS: 1

REFERENCES: Page 11, Selection of the Joining Process

OUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

DATE CREATED: 12/29/2015 9:22 AM DATE MODIFIED: 12/29/2015 9:22 AM

46. Explain the difference between manual welding and semiautomatic welding.

ANSWER: With **manual welding t**he welder is required to manipulate the entire process but with

semiautomatic welding the filler metal is added automatically, and all other manipulation is

done manually by the welder.

POINTS: 1

REFERENCES: Page 11, Selection of the Joining Process

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

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Chapter 1 Introduction to Welding

STUDENT ENTRY Basic

MODE:

DATE CREATED: 12/29/2015 9:22 AM DATE MODIFIED: 12/29/2015 9:23 AM

47. What is the process to become a weld inspector?

ANSWER: Welding inspectors are often required to hold a special certification such as the one supervised by the

American Welding Society known as Certified Welding Inspector (CWI). To become a CWI, candidates must pass a test covering the welding process, blueprint reading, weld symbols, metallurgy, codes and standards, and inspection techniques. Vision screening is also required on a

regular basis once the technical skills have been demonstrated.

POINTS: 1

REFERENCES: Page 12, Occupational Opportunities in Welding

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

MODE:

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48. What is a welding engineer?

ANSWER: Welding engineers design, specify, and oversee the construction of complex weldments. The welding

engineer may work with other engineers in areas such as mechanics, electronics, chemicals, or civil engineering in the process of bringing a new building, ship, aircraft, or product into existence. The welding engineer is required to know all of the welding process and metallurgy as well as have good math, reading, communication, and design skills. This person usually has an advanced college degree

and possesses a professional certification.

POINTS: 1

REFERENCES: Page 12-13, Occupational Opportunities in Welding

QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

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49. What qualities and skills are useful in preparation for a career in welding?

ANSWER: A young person planning a career as a welder needs good eyesight, manual dexterity, hand and eye

coordination, and an understanding of welding technology. For entry into manual welding jobs, employers prefer to hire young people who have high school or vocational training in welding processes. Courses in drafting, blueprint reading, mathematics, and physics are also valuable.

POINTS: 1

REFERENCES: Page 14, Job-Related Skills QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False

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Chapter 1 Introduction to Welding

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50. List 5 areas of production where there is a need for welders?

ANSWER: Sheet metal products, pressure vessels, boilers, railroads, storage tanks, air-conditioning

equipment, shipyards, pipelines, and petrochemical plants.

POINTS: 1

REFERENCES: Page 14, Job Prospects
QUESTION TYPE: Subjective Short Answer

HAS VARIABLES: False STUDENT ENTRY Basic

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