

QUESTIONS AND ANSWERS BRAZING, WELDING AND HEAT TREATMENT

This mobile revision pdf is based on detailed work found in the 'MATERIALS' and 'EQUIPMENT' sections.

Tap on the green and yellow link buttons below to go to the website.



Tap the blue button to view all work covered by this Revision PDF



QUESTIONS AND ANSWERS BRAZING, WELDING AND HEAT TREATMENT

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HOW TO USE THIS REVISION PDF

Read and attempt answering each question, before following the link to a potential answer. Also, consider working in pairs.

QUESTIONS ONE TO FIVE

QUESTIONS SIX TO TEN

QUESTIONS ELEVEN TO FIFTEEN

**TAP / CLICK THE LINK
BUTTON FOR ALL
MOBILE APPS**



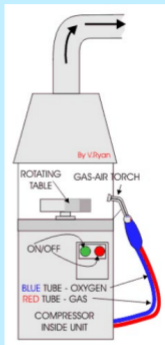
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QUESTION 1a

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Describe how a brazing hearth works.

Tap the image a potential answer



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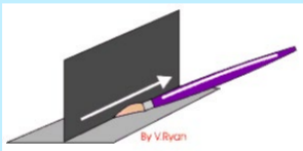


QUESTION 1b

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When brazing two pieces of sheet steel, how is the metal prepared for use?

Tap the image a potential answer



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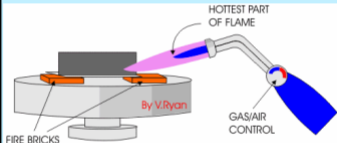


QUESTION 1c

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Describe the brazing process, when joining two pieces of sheet steel.

Tap the image a potential answer



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QUESTION 1d

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What safety clothing / equipment should be used when brazing?

Tap the image a potential answer



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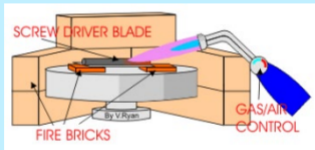
QUESTION 2

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Hardening and tempering is a process for 'improving' the properties of some steels.

Describe the process?

Tap the image a potential answer



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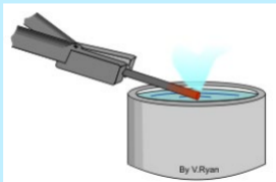
QUESTION 3

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Case hardening is a simple method of hardening steel. It is less complex than hardening and tempering, used for steels with a low carbon content.

Describe the process, as carried out in a school workshop.

Tap the image a potential answer



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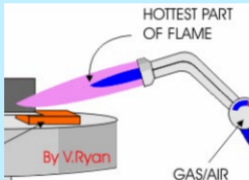


QUESTION 4a

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What is 'annealing' of metals?

Tap the image for a potential answer



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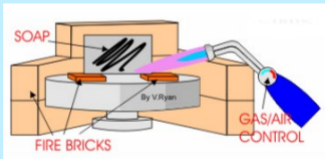


QUESTION 4b

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Describe the annealing process for sheet aluminium, in a school workshop.

Tap the image for a potential answer



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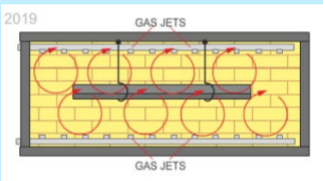


QUESTION 5a

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Describe the commercial / large scale annealing process.

Tap the image for a potential answer



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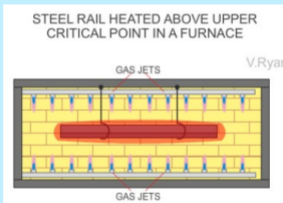
QUESTION 5b

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Normalising is a heat treatment process.

What is it?

Tap the image for a potential answer



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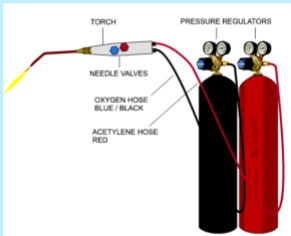


QUESTION 6a

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What is oxyacetylene / gas welding?

Tap the image for a potential answer



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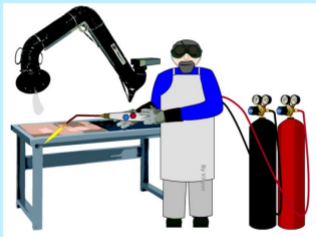


QUESTION 6b

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How is it ensured that oxyacetylene welding is safe?

Tap the image for a potential answer



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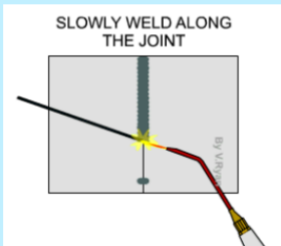


QUESTION 7

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Describe the process of gas welding two steel plates.

Tap the image for a potential answer



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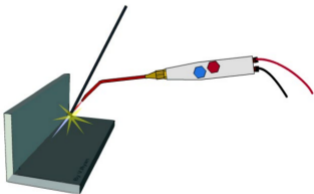


QUESTION 8

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Describe the process for gas welding plates at right angles to each other.

Tap the image for a potential answer



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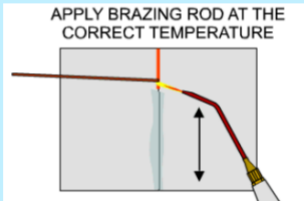


QUESTION 9

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Describe each stage of brazing, using oxyacetylene equipment.

Tap the image for a potential answer



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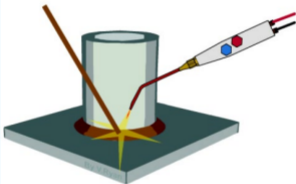
QUESTION 10a

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What is 'bronze welding'?

Tap the image for a potential answer

BRAZE WELDING / BRONZE WELDING



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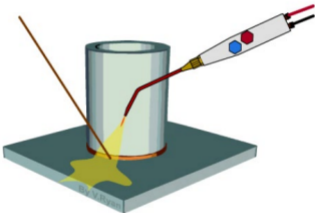


QUESTION 10b

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How is oxyacetylene equipment used to braze?

Tap the image for a potential answer



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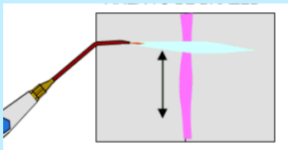
QUESTION 10c

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Brazing and braze welding (bronze welding), can be used to join similar and dissimilar metals.

List some of the metal combinations.

Tap the image for a potential answer



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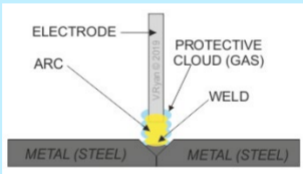


QUESTION 11a

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Briefly, describe electric arc welding.

Tap the image for a potential answer



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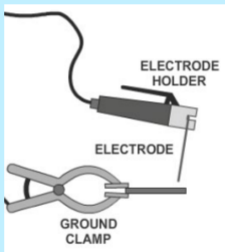


QUESTION 11b

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Sketch and label all the equipment needed for electric arc welding.

Tap the image for a potential answer



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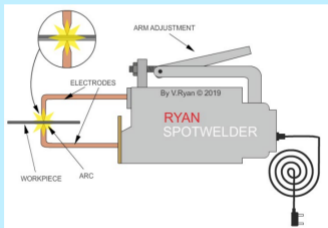


QUESTION 12

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What is spot welding? Describe some practical applications of this type of welding.

Tap the image for a potential answer



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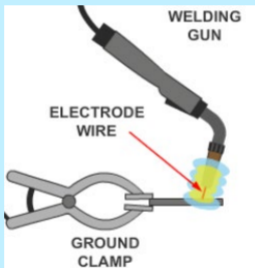


QUESTION 13a

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What is MIG welding? Describe some practical applications of this type of welding.

Tap the image for a potential answer



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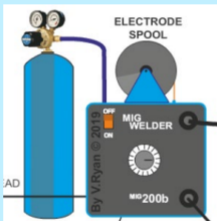


QUESTION 13b.

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Sketch and label the complete set of equipment required for MIG welding.

Tap the image for a potential answer



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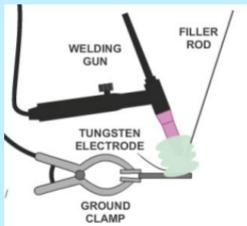


QUESTION 14

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What is TIG welding? Describe some practical applications of this type of welding.

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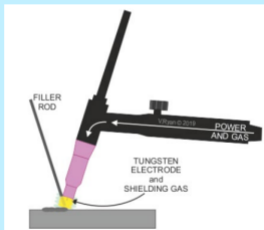


QUESTION 15

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How does TIG welding differ from Electric Arc welding?

Tap the image for a potential answer



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