

# CASE HARDENING

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

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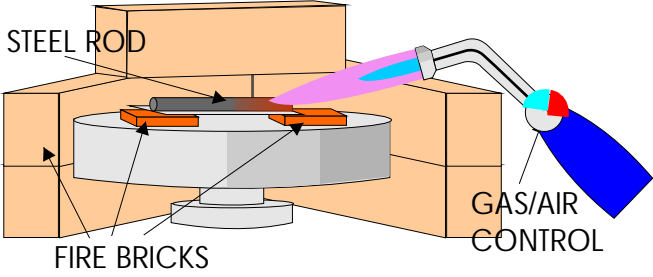
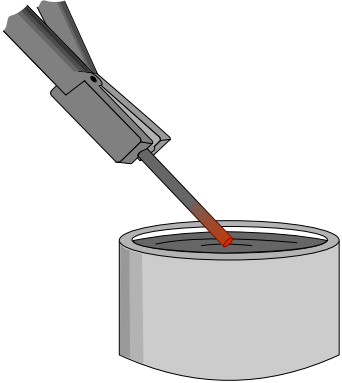
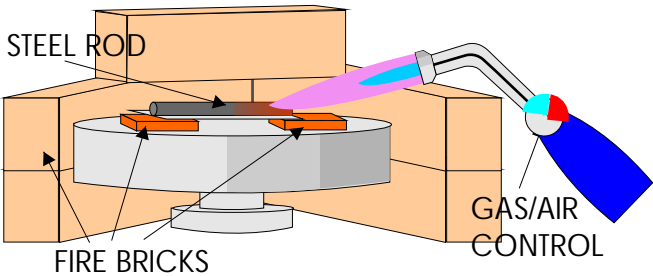
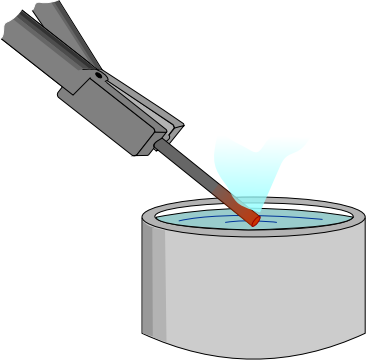
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1. What is case hardening?

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2. The table below outlines the stages involved in the case hardening of steel. Complete the table by adding an explanation / text to each stage.

EXPLANATION / TEXT	DIAGRAM
	 <p>The diagram shows a cross-section of a furnace. A steel rod is positioned horizontally across the furnace. The furnace is constructed from fire bricks. A gas/air control valve is shown on the right side, with a blue handle. A pink and blue flame is directed at the end of the steel rod.</p>
	 <p>The diagram shows a steel rod being held by tongs and being lowered into a cylindrical container filled with a dark liquid. The rod is partially submerged.</p>
	 <p>The diagram shows a cross-section of a furnace. A steel rod is positioned horizontally across the furnace. The furnace is constructed from fire bricks. A gas/air control valve is shown on the right side, with a blue handle. A pink and blue flame is directed at the end of the steel rod.</p>
	 <p>The diagram shows a steel rod being held by tongs and being lowered into a cylindrical container filled with a light blue liquid. The rod is partially submerged, and a blue flame is visible above the liquid.</p>