

# Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic

51-4191.00



**Description:** Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal.

## Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

**Sample of Reported Job Titles:** Batch Heat Treat Operator, Burner, Coating Line Worker

## Job Zone

**Title:** 2 - Some Preparation Needed

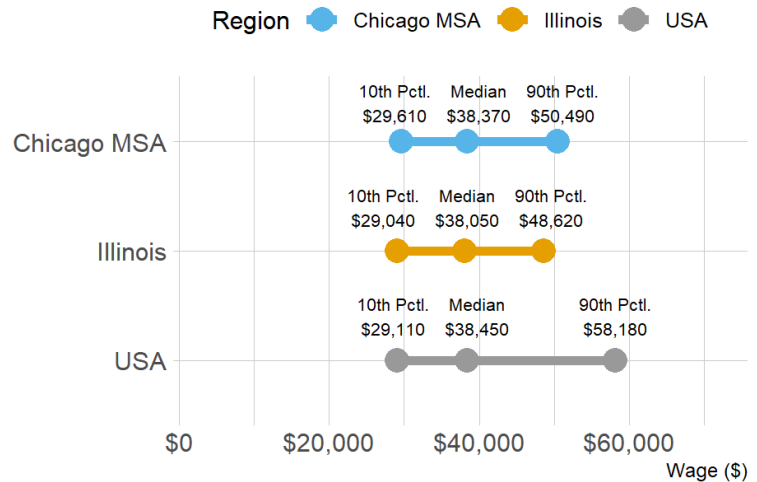
**Education:** Usually require a high school diploma.

**Experience:** Some previous work-related skill, knowledge, or experience is needed.

**Training:** A few months to one year of working with experienced employees needed. A recognized apprenticeship program may be associated with these occupations.

**Hot Technologies:** Enterprise resource planning ERP software, Microsoft Office Suite

Region	Employment	Location Quotient	Median Wage
Chicago MSA	690	1.59	\$38,370
Illinois	730	1.26	\$38,050
USA	14,540	—	\$38,450



## Top 5 Core Tasks According to Current Job Holders

**Importance**  
**Frequency (out of 100)**

Read production schedules and work orders to determine processing sequences, furnace temperatures, and heat cycle requirements for objects to be heat-treated.

Hourly or more

97

Record times that parts are removed from furnaces to document that objects have attained specified temperatures for specified times.

Hourly or more

94

Adjust controls to maintain temperatures and heating times, using thermal instruments and charts, dials and gauges of furnaces, and color of stock in furnaces to make setting determinations.

Hourly or more

92

Set up and operate or tend machines, such as furnaces, baths, flame-hardening machines, and electronic induction machines, that harden, anneal, and heat-treat metal.

Daily

90

Start conveyors and open furnace doors to load stock, or signal crane operators to uncover soaking pits and lower ingots into them.

Daily

90