

Specific Taxonomy – Iron & Steel

Level 1	Level 2	Level 3
Process Technology	Sinterization Process	Blending and mixing of raw material
		Coke crushing
		Sinter strand
		Hot crushing
		Sinter screening
		Sinter cooling and dedusting
		Homogenization system
		Gas recirculation system
		Materials charging
		Stacking
	Pelletisation Process	Crushing, grinding and filtration of raw materials
		Mixing
		Balling
		Induration strand
		Screening and handling
	Production of coke and agglomerate in Coke Oven Plants	Coal handling
		Coke oven
		Coke quenching
		Coke screening
		Coke oven gas treatment
		Coke handling
	Blast Furnace	Burden preparation
		Raw materials charging
		Blast furnace
		Hot stoves (cowpers)
	Refinement of iron	Coke, lime and other additives to remove impurities ores

Level 1	Level 2	Level 3
Process Technology	Basic Oxygen Steelmaking	Hot metal desulphurization
		Deslagging
		Hot metal transfer and charging
		Oxygen blowing
		Oxycombustion system
		Secondary metallurgy (homogenisation, ladle, vacuum treatment, ...)
	Steelmaking by Electric Arc Furnace	Raw materials handling
		Scrap pre-heating
		Charging
		Melting and refining
		Secondary metallurgy (ladle/refining)
		Electric Arc Furnace
	Casting	Strip casting
		Near net-shape casting
		Ingot casting
		Continuous casting
		Thin slab casting
		Casting
	Hot Rolling Mill	Slab furnace re-heating
		Roughing mill and coiling
		Plate cleaning
		Rolling
		Cooling and coiling
	Cold Rolling Mill	Material cooling
		Annealing furnace
		Temper rolling
		Bar cold finishing (drawing, turning, grinding, polishing)
	Finishing processes	Finishing processes
	Wire Plant	Wire plant

Level 1	Level 2	Level 3
Process Technology	Cast iron	Pig iron melting in cupola
		Pig iron melting in electric furnaces
		Holding furnace/Ladle

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Service Technology	Sinterization Process	Blending and mixing of raw material
		Coke crushing
		Sinter strand
		Hot crushing
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		Sinter cooling and dedusting
		Homogenization system
		Gas recirculation system
		Materials charging
		Stacking
	Pelletisation Process	Crushing, grinding and filtration of raw materials
		Mixing
		Balling
		Induration strand
		Screening and handling
	Production of coke and agglomerate in Coke Oven Plants	Coal handling
		Coke oven
		Coke quenching
		Coke screening
		Coke oven gas treatment
		Coke handling
	Blast Furnace	Burden preparation
		Raw materials charging
		Blast furnace
		Hot stoves (cowpers)
	Refinement of iron	Coke, lime and other additives to remove impurities ores

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	Steelmaking by Electric Arc Furnace	Raw materials handling
		Scrap pre-heating
		Charging
		Melting and refining
		Secondary metallurgy (ladle/refining)
		Electric Arc Furnace
	Casting	Strip casting
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		Ingot casting
		Continuous casting
		Thin slab casting
		Casting
	Hot Rolling Mill	Slab furnace re-heating
		Roughing mill and coiling
		Plate cleaning
		Rolling
		Cooling and coiling
	Cold Rolling Mill	Material cooling
		Annealing furnace
		Temper rolling
		Bar cold finishing (drawing, turning, grinding, polishing)
	Finishing processes	Finishing processes
	Wire Plant	Wire plant

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Service Technology	Cast iron	Pig iron melting in cupola
		Pig iron melting in electric furnaces
		Holding furnace/Ladle
	Furnace	Blast furnace casting
		Slag cooling and processing

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Alternative Energy	Sinterization Process	Coke crushing
		Hot crushing
		Homogenization system
		Gas recirculation system
	Production of coke and agglomerate in Coke Oven Plants	Coke oven
		Coke oven gas treatment
	Blast Furnace	Blast furnace
		Hot stoves (cowpers)
	Basic Oxygen Steelmaking	Hot metal desulphurization
		Hot metal transfer and charging
		Oxycombustion system
		Secondary metallurgy (homogenisation, ladle, vacuum treatment, ...)
	Steelmaking by Electric Arc Furnace	Scrap pre-heating
		Melting and refining
		Secondary metallurgy (ladle/refining)
		Electric Arc Furnace
	Hot Rolling Mill	Slab furnace re-heating
		Annealing furnace
	Finishing processes	Finishing processes
	Cast iron	Pig iron melting in cupola
		Pig iron melting in electric furnaces
		Holding furnace/Ladle