鋳造職種(非鉄金属鋳物鋳造作業) Job category: Casting (Operation: Casting nonferrous metal and article operation)

作業の定義 Criteria of Operations	銅及び銅合金、アルミニウムとアルミニウム合金及びマグネシウムとマグネシウム合金等を溶かして鋳型に注ぎ込み、冷えて固まった後で鋳型から取り出し、 目的に応じた製品に仕上げる作業をいう。 Melt copper and copper alloy, aluminium and aluminium alloy, magnesium and magnesium alloy and pour into mold, after cooling and harding, take them out from the mold, and finish up in accordance to the purpose.			
必須業務(移 行対象職種・作 業で必ず行う業 務) Compulsory works (Works to be essential on the operations in the job categories to be shifted)	(1)非鉄金属鋳物鋳造作業 Casting nonferrous metal and article operation ①鋳型の造型作業 Shaping mold 1.中子の製作作業 Manufacturing metal core	1)非鉄金属鋳物鋳造 asting nonferrous ①及び②の1.は必ず②の2.から5.の作業②はできるだけ行うごの Be sure to do the Do ③ as much ①鋳型造型の段取り Preparatory jo ②鋳型の造型及び補 Casting mold a 1.中子の製作作業 Manufacturing 2.砂型による造型化 Casting work c 3.鋳型の乾燥及び Drying and ass 4.鋳型の良否の判 Judging quality 5.塗型剤の選定、	metal and article operation 行うこと。 のうち二つ以上行うこと。 and ②-1. wo or more from ②-2 to 5. as possible. 作業 b in casting mold が作業 and repair work metal core 作業 of sand mold 組立て作業 sembling work of mold 定及び補修作業 y of mold and repair work	第3号技能実習 Technical Intern Training (iii) (1)非鉄金属鋳物鋳造作業 Casting nonferrous metal and article operation ①、③、④及び②の1.は必ず行うこと。 ②の2.から5.の作業のうち二つ以上行うこと。 Be sure to do ①、③、④ and ②-1. Be sure to do two and more from ②-2 to 5. ①鋳型造型の段取り作業 Preparatory job in casting mold ②鋳型の造型及び補修作業 Casting mold and repair work 1.各種中子の製作作業 Manufacturing metal core 2.各種砂型による造型作業 Casting work of sand mold 3.鋳型の乾燥及び組立て作業 Drying and assembling work of mold 4.鋳型の良否の判定及び補修作業 Judging quality of mold and repair work 5.塗型剤の選定、調合及び塗型作業 Selecting coating, preparation and coating work ③鋳込作業 Casting work ④鋳造方案の作成及び決定作業 Making a plan of casting mold and deciding work
関連業務、周辺	(2)安全衛生業務 ①雇入れ時等の安全衛生教育 ②作業開始前の安全装置等の点検作業 ③鋳造職種に必要な整理整頓作業 ④鋳造職種の作業用機械及び周囲の安全確認作業 ⑤安全装置の使用等による安全作業 ⑦労働衛生上の有害性を防止するための作業 ⑧異常時の応急措置を修得するための作業 (2) Safety and health work ① Safety and health education at the time of new employment ② Inspection work of safety equipment etc. before starting work ③ Organization necessary for casting ④ Safety confirmation works of casting machines and surroundings ⑤ Safety inspection work of wearing protective equipment and clothes ⑥ Safety work by using safety devices, etc. ⑦ Work to prevent hazards in occupational health ⑧ Work to acquire emergency measures in case of abnormalities (1) Related works			
業務(上記必 須業務に関する 技能等の修得に 係る業務等で該 当するものを選 択すること。) Related works, peripheral works (Choose what is applicable in works related to acquisition of skills etc. concerning above essential tasks.)	①鋳鉄鋳物鋳造作業 ②調砂作業		<ol> <li>Casting iron and article operation</li> <li>Sand adjustment work</li> <li>Operating work of alloy melting furnace</li> <li>Machine manufacturing work (only for casting)</li> <li>After processing work (deburring, drilling, grinding etc.)</li> <li>Checking work (appearance, size, material, strength, no destruction, internal and external defect etc.)</li> <li>Management work of machines and tools for casting</li> <li>Maintenance and management work of wooden form and metal mold</li> <li>Peripheral works</li> <li>Transportation work equipment (in factory)</li> <li>Assembling work piece and products</li> <li>Packing and shipping work of products and work piece</li> <li>Management work related to casting, examples: cost accounting, quality control,etc.</li> <li>Driving work of lifting and transporting machines</li> <li>Slinging work (Special education or skill training is necessary.)</li> <li>Safety and health work Same as ** above</li> </ol>	
使用する素材、 材料等(該当 するものを選択 すること。) Materials etc. to use (Select the appropriate one.)	2.黄銅 Brass 1 3.高力黄銅 High tensile brass 1 4.青銅 Bronze 1 5.りん青銅 Phosphor bronze 1	or more. 0.アルミニウム 1.アルミニウム合金 2.マグネシウム 3.マグネシウム合金 4.その他の合金	Aluminum Aluminium alloy Magnesium Magnesium alloy Other alloy	

1.及び2.を必ず使用し、3.から17.のうち必要なものを使用すること。 Be sure to use 1 and 2, use as necessary from 3 to 17. 1.各種鋳造用手工具(けがき、ぽんち、たがね、ハンマ、へら類、こて(鏝)類、スタンプ及び突き棒類、はけ及び筆類、ふるい類等) Various casting hand tools (marking-off, punch, chisel, hummer, spatula, trowel, stamp and tamping rod, brush, sieve) 2.各種測定用器工具(スコヤ、定盤、定規、鋳物尺、ノギス等) Various measurement tools (square, surface plate, ruler, shrinkage rule, Vernier calipers, etc.) 3. 造型機 Shaping machines 4. 造型機用付属装置及び付属装置用手工具 Attachment devices for shaping machine and hand tools for attachment devices 5.中子成型機 Metal core forming machines 6.中子成型機用付属装置及び付属装置用手工具 使用する機械、 Attachment devices for metal core forming machines and hand tools for attachment devices 器具等(該当 7.鋳造用溶解炉 するものを選択 Melting furnace for casting すること。) 8.各種検査機器 Machine, Various testing equipment 9.各種鋳造用器工具 equipment, Various tools for casting etc. to use 10.各種電動工具 (Select the Various electric tools appropriate 11.各種エアツール one.) Various air tools 12.保護具 Protective equipment 13.塗型装置 Coating devices 14.砂混練機(バッチタイプ、連続式) Sand mixer (patch-type, continuous type) 15.砂落し装置(ショットブラスト、ターンブラスト等) Sand removing devices (shot blast, turn blast, etc.) 16.鋳型ばらし装置 Mold dismantling devices 17.堰折り(せきおり)装置 Sekiori devices (gate folding devices) ①銅合金鋳物製品例 ②アルミニウム合金鋳物製品例 Examples of copper alloy casting products Examples of aluminium alloy casting products 1.バルブコック(都市ガス、石油コンビナート等大型の工業用バルブ等) 1.自動車部品(シリンダブロック、オイルポンプハウジング、ブレーキロータ等) Car parts (cylinder block, oil pump housing, brake rotor, etc.) Valve cock (large valve for industrial use, ex: city gas, petrochemical complex, etc.) 2.産業機械器具部品(工作機械、建設機械等の部品、空気圧容器等) 製品等の例 2.産業機械器具部品(ボイラ、土木・鉄鋼その他工業用機械等の部品) Industrial machine equipment parts (machine tools, parts for (該当するもの construction machine, air pressure container, etc.) Industrial machine equipment parts (boiler, civil を選択するこ 3. 電気機器部品(発変電所内構造部材、各種照明器具部品等) engineering, steel, parts for industrial machine etc.) と。) 3.輸送機械用部品(自動車部品を含む。) Electrical machine parts (structural member in power station Examples of Transportation machine parts (including car parts) and substation, various lighting equipment parts, etc.) products etc. 4.港湾船舶用部品(港湾関係機械の部品、船舶のスクリュ等) 4.通信機器部品(半導体部品、液晶製造装置関連部品等) (Select the Harbor ship parts (parts for harbor machine, Communication device parts (semiconductor parts, parts for appropriate liquid crystal manufacturing device, etc.) ship screw, etc.) one.) 5.電気機器部品(送配電線架線金具、受配電システム部品等) 5.景観鋳物(照明機器用、防護柵等) Electrical machine parts (line hardware for transmission Cast for landscape (for lighting equipment, protective fence, etc.) /distribution line, receiving/distribution system parts, etc.) 6.景観鋳物(モニュメント工芸品等) Cast for landscape (monument craft products, etc.) 1. 銑鉄製造(製銑)作業 8.鍛造作業 Pig iron manufacturing work Forging work 移行対象職種 2.鋳造以外の鉄素形材製造作業 9.ダイカスト作業 作業とはならない Iron shaped raw material manufacturing except casting Die casting work 作業·業務例 3.鋳造以外の非鉄金属素形材製造作業 10.鍛造用ビレット製造作業 Example of Nonferrous metal shaped raw material except casting Billet manufacturing work for forging works which 11.中子製造作業のみの場合 4. 鋳物用鉄溶融作業 Only in case of metal core manufacturing is not eligible Iron melting work for casting 5. 鋳物用非鉄金属溶融作業 12.中子製造作業がない場合 for the job Nonferrous metal melting work for casting In case of no metal core manufacturing categories / 6.金属素形材 (プレス) 製品製造作業 13.上記の関連業務及び周辺業務のみの場合 operations to Metal shaped raw material product manufacturing work In the case of the above-mentioned related work and be shifted 7.金属被覆·彫刻業·熱処理作業 peripheral work only Metal coating, carving, heat treatment work