

## Grinding of Metals

SPECIAL REGULATIONS, DATED 10TH NOVEMBER, 1950, MADE BY THE  
MINISTRY OF LABOUR AND NATIONAL INSURANCE UNDER SECTION  
65 OF THE FACTORIES ACT (NORTHERN IRELAND), 1938, AND SECTION  
8 OF THE FACTORIES ACT (NORTHERN IRELAND), 1949.

1950. No. 203

The Ministry of Labour and National Insurance for Northern Ireland by virtue of the powers conferred by Section 65 of the Factories Act (Northern Ireland), 1938, (a) (hereinafter referred to as "the principal Act") Section 8 of the Factories Act (Northern Ireland), 1949, (b) and of all other powers in that behalf, hereby makes the following Special Regulations :—

### PART I — GENERAL

#### *Short title, commencement and revocation*

1.—(1) These Regulations may be cited as the Grinding of Metals Special Regulations (Northern Ireland), 1950, and shall come into force on the 1st day of January, 1951.

(2) The undernoted Regulations are hereby revoked :—

The Regulations made by the Secretary of State on the 15th October, 1909, for the Grinding of Metals and Racing of Grindstones (c), so far as they relate to Northern Ireland.

The Grinding of Metals (Miscellaneous Industries) Regulations (Northern Ireland), 1926 (d).

#### *Interpretation*

2.—(1) The Interpretation Act, 1889, (e) applies to the interpretation of these Regulations as it applies to the interpretation of an Act of the Parliament of Northern Ireland.

(2) The provisions of Regulations 5, 6, 10 and 16 shall, as respects the particular processes therein respectively mentioned and to the extent to which they apply to those processes, be in substitution for the provisions of Section 48 of the principal Act, but save as aforesaid the requirements imposed by the Regulations shall be in addition to and not in derogation of the provisions imposing requirements as to health or safety contained in Parts I, II or IV of the principal Act; and no exemption, suspension or relaxation from any of the provisions of the Regulations shall be deemed to be an exemption, suspension or relaxation, as the case may be, from any such requirement as to health or safety.

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(a) 2. Geo. 6. C. 23. (b) 13. Geo. 6. C. 6. (c) S. R. & O. 1909, No. 1155.  
(d) S. R. & O. of N.I., 1926, No. 88. (e) 52 & 53 Vict. C. 63.

(3) In these Regulations, unless the context otherwise requires, the following expressions have the meanings hereby assigned to them respectively, that is to say :—

- “ Abrasive Wheel ” means a wheel manufactured of bonded emery or similar abrasive.
- “ Chief Inspector ” has the same meaning as in the principal Act.
- “ Cleaning of Castings ” means the freeing of castings from adherent sand or other substance, and includes the withdrawal or knocking out of cores, core rods and lifters, the removal of ingates, risers or other projections or excrescences, and the general smoothing of the castings.
- “ Glazing ” means the abrading, polishing or finishing, by aid of mechanical power, of metal, article of metal, or part of any article of metal by means of any wheel, buff, mop, bob, dolly, or band to which any abrading or polishing substance is attached or applied, except the process known as “ sand buffing ” in which articles are polished by means of a mixture of oil and sand applied by hand to a rotating buff.
- “ Grinding ” means the abrasion, by aid of mechanical power, of metal, article of metal, or part of any article of metal by means of a grindstone or abrasive wheel.
- “ Grindstone ” means a grindstone composed of natural or manufactured sandstone, but does not include a metal wheel or cylinder into which blocks of natural or manufactured sandstone are fitted.
- “ Hacking ” means the chipping of the surface of a grindstone by a hack or similar tool.
- “ Inspector ” means an inspector appointed under Section 128 of the principal Act.
- “ Racing ” means the turning up, cutting or dressing of a revolving grindstone before the grindstone is brought into use for the first time.
- “ Rodding ”, which includes “ barring up ” or “ scaring ”, means the dressing of the surface of a revolving grindstone by the application of a rod, bar, or strip of metal to such surface.
- “ Rumbling ”, which includes “ rattling ” or “ tumbling ” or “ jiggling ”, means the freeing of castings from adherent sand by rotating them in a revolving vessel.

#### *Application of Regulations*

3.—(1) Subject to the provisions of sub-paragraph (2) of this Regulation, these Regulations shall apply to all factories or parts thereof in which is carried on the grinding or glazing of metals, or any process incidental to the grinding of metals or the cleaning of castings.

(2) (I) Nothing in these Regulations shall apply —

- (a) to any grinding or glazing of any article of gold, platinum, or iridium, or to any process incidental thereto ;
  - (b) to the undernoted processes where these are carried on in a place in the open air where no person is wholly or mainly employed in such work —
    - (i) processes in or incidental to the sharpening of tools or implements for use in the factory ; or
    - (ii) the grinding or glazing of metals, or racing, hacking or rodding in connection therewith, in a factory in which only repairs are carried on ; or
  - (c) to the intermittent grinding or glazing of metals in a place in the open air where no person is employed in such work for more than 12 hours in any week.
- (II) These Regulations other than Regulations 7 and 13, shall not apply —
- (a) in the case of a factory in which only repairs are carried on, to the following work, that is to say, the grinding or glazing of metals, or racing, hacking or rodding in connection therewith, carried on in a room in which such work is not carried on for more than 12 hours in any week ;
  - (b) to processes in or incidental to the sharpening of tools or implements for use in the factory, carried on at a grinding or glazing machine at which such work is not carried on for more than 12 hours in the aggregate in the day periods in any week and is not carried on for more than 12 hours in the aggregate in the night in any week, if the machine is not used by a person wholly or mainly employed on such work (other than such work performed at a machine or machines with adequate appliances such as are mentioned in Regulation 6 of these Regulations). For the purpose of this exemption, the expression “ night ” means all the time not included in the day periods ; and the expression “ day period ” means the period between seven o'clock in the morning and seven o'clock in the evening or, in relation to any particular factory, such alternative period between midnight and midnight of not less than 10 hours' consecutive duration as may be specified by the occupier by notice posted in the factory ; or
  - (c) to the intermittent grinding or glazing of metals in a room in which such work is not carried on for more than 12 hours in any week ; so, however, that this exemption shall not apply in any case where the Chief Inspector gives notice in writing to that effect to the occupier of the factory.

If the Chief Inspector is satisfied in respect of any factory or any class of machines that, owing to the special conditions or special methods of work or otherwise, any of the requirements of these Regulations can be suspended or relaxed without danger to the health or safety of the

persons employed, or that the application of these Regulations or some part thereof would for any reason be impracticable, he may by certificate in writing (which he may in his discretion revoke) authorise such suspension or relaxation for such period and on such conditions as he may think fit.

#### PART II — DUTIES

4. Every occupier and manager of any factory to which these Regulations apply shall be bound to observe the same, and it shall be the duty of the occupier to provide and maintain the appliances, accommodation or water supply as and when required by the Regulations.

It shall be the duty of every person who is employed or engaged in any work to which these Regulations apply to observe the same; except in so far as any duty is expressly imposed on any other person; to make full and proper use of all appliances, facilities or accommodation provided for any of the purposes of the Regulations, and to report forthwith to the owner, occupier, manager or other responsible person any defect in the same.

#### PART III—PRECAUTIONS IN CONNECTION WITH GRINDING, GLAZING, ETC.

5. No racing, dry grinding, or glazing ordinarily causing the evolution of dust into the air of the room in such a manner as to be inhaled by any person employed shall be performed without the use of adequate appliances for the interception of the dust as near as possible to the point of origin thereof, and for its removal and disposal so that it shall not enter any occupied room, and for the purpose of this Regulation the appliances shall not be deemed adequate unless they either include —

- (a) a hood or other appliance, so constructed, arranged, and placed as substantially to intercept the dust thrown off; and
- (b) a duct of adequate size, air tight and so arranged as to be capable of carrying away the dust, which duct shall be kept free from obstruction and shall be provided with proper means of access for inspection and cleaning, and, where practicable, with a connection at the end remote from the fan to enable an Inspector to attach thereto any instrument necessary for ascertaining the pressure of air in the said duct; and
- (c) a fan or other efficient means of producing a draught sufficient to extract the dust;
- (d) or are such as, in the case of the particular factory or part thereof, or of the particular manufacture, process or operation in or for which they are used, shall be proved to be at least as effectual for such interception, removal and disposal as such hood, duct and fan would be.

6. In every room in which wet grinding upon a grindstone is carried on there shall be provided and maintained whilst work is in progress either —

- (a) adequate exhaust and inlet ventilation ; or
- (b) a supply of clean water conveyed by pipes and deposited upon the surface of the grindstone, and suitable arrangements to ensure the drainage of the waste water from the grindstone trough.

For the purposes of this Regulation the ventilation shall not be deemed to be adequate unless (i) it ensures that the air of the room is renewed not less than 12 times per hour ; (ii) it is arranged in such a manner as to secure a continuous movement of the air in a direction from the grinder towards the grindstone ; and (iii) the fresh air inlets are so arranged and are of such dimensions that no worker is exposed to a direct draught from them.

7. Not more than one person shall at any time be allowed to perform the actual process of grinding or glazing upon any grindstone, abrasive wheel or glazing appliance.

Provided that this Regulation shall not prohibit the employment of persons to assist in the manipulation of heavy or bulky articles at any such grindstone, abrasive wheel or glazing appliance.

8. Glazing or other processes, except processes incidental to wet grinding upon a grindstone, shall not be carried on in any room in which wet grinding upon a grindstone is done.

9. Wet grinding upon a grindstone shall not be done in any room —

- (a) in which the height of the room, measured from any part of the floor to the lowest part of the top, is less than 10 feet ; or
- (b) in which the total window area is less than one-sixth of the floor area ; or
- (c) unless all the windows of the room are properly glazed and the glass or other material of such windows maintained whole and kept clean.

10. Hacking or rodding shall not be done unless during the process either (a) an adequate supply of water is laid on at the upper surface of the grindstone or the grindstone is adequately wetted by other means, so as to ensure as far as practicable the suppression of dust, or (b) adequate appliances for the interception of the dust are provided in accordance with the requirements of Regulation 5.

11. In every room in which racing or grinding upon a grindstone is done the floor, walls, ceiling or top and all other parts of the room and fixtures shall be properly swept or otherwise cleaned at least once in every three calendar months. Provided that this Regulation shall not apply to any part of the room or fixtures exceeding 14 feet in height from the floor.

12. No person employed at grinding, glazing or processes incidental thereto shall spit upon the floor, walls or any part of any room in which grinding, glazing or processes incidental thereto are carried on, or into or upon any apparatus, plant or fixtures in any such room.

13.—(a) In every room in which grinding is carried on there shall be kept permanently affixed a notice specifying the safe working peripheral speed of every class of grindstone and abrasive wheel in use in such room. Such notice shall specify also the speed of the shafts or spindles upon which the grindstones or abrasive wheels are mounted and the diameters of the pulleys upon such shafts or spindles necessary to secure such safe working peripheral speed.

(b) The occupier or his agent shall, when required by an Inspector, give all necessary facilities and particulars to enable him to determine the speed of any shaft, pulley or other appliance.

14. In every room, or part thereof, in which cleaning of castings is done —

(a) the walls, ceiling or top and all other parts of the room (except the floor) and fixtures shall be properly swept or otherwise cleaned at least once in every three calendar months. Provided that this requirement shall not apply to any part of the room or fixtures exceeding 14 feet in height from the floor ; and

(b) all accessible parts of the floor shall be properly swept or otherwise cleaned at least once every day and for this purpose the floor shall be maintained in a smooth and firm condition so as to permit of such proper sweeping or cleaning.

Provided that this Regulation shall not apply to —

(i) cleaning of castings done upon the foundry floor at or near the place where the metal for the said castings is poured ; or

(ii) any room wherein the only castings dealt with are those which have been freed from sand elsewhere ;

and provided also that paragraph (a) of this Regulation shall not apply to any room in which rumbling is done but no other work is ordinarily performed.

15. A register containing the dates and particulars of all sweeping or cleaning done in pursuance of Regulations 11 and 14 (a) and the name and the address of the person performing the sweeping or cleaning or, when more than one are employed, of the person in charge, shall be kept in a form approved by the Chief Inspector. Such register shall be available for inspection by any workman employed in any room in respect of which the register is required to be kept.

16. Rumbling shall not be done unless —

(a) the rumbling appliance is provided with efficient exhaust draught arranged and maintained so that any dust evolved is prevented from entering any occupied room ; or

- (b) such other arrangements are made as shall be proved to be at least as effective in preventing the dust from entering any occupied room.

17.—(a) All ventilating plant used for the purpose of extracting or suppressing dust shall at least once in every six months be examined and tested by a competent person, and any defect disclosed by such examination and test shall be rectified as soon as practicable.

(b) A register containing particulars of such examination and test shall be kept in a form approved by the Chief Inspector and shall be available for inspection by any workman employed in any room in respect of which the ventilating plant is provided.

Sealed with the Official Seal of the Ministry of Labour and National Insurance for Northern Ireland this 10th day of November, 1950, in the presence of

(L.S.)

R. W. Steele,  
Assistant Secretary.

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### FIRE SERVICES

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### Conditions of Service

REGULATIONS, DATED 29TH SEPTEMBER, 1950, MADE BY THE MINISTRY OF HOME AFFAIRS UNDER SECTION NINE OF THE FIRE SERVICES (AMENDMENT) ACT (NORTHERN IRELAND), 1950.

1950. No. 170

The Ministry of Home Affairs by virtue and in exercise of the powers conferred upon it by Section Nine of the Fire Services (Amendment) Act (Northern Ireland), 1950, and of all other powers enabling it in that behalf, hereby makes the following Regulations :—

1.—(1) These Regulations may be cited as the Fire Services (Conditions of Service) Regulations (Northern Ireland), 1950, and shall come into force on the date hereof.

(2) The Interpretation Act, 1889, shall apply to the interpretation of these Regulations as it applies to the interpretation of an Act of the Parliament of Northern Ireland.

(3) In these Regulations —

“ the Act ” means the Fire Services (Amendment) Act (Northern Ireland), 1950.