



International Labour Organization
Organisation internationale du Travail
Organización Internacional del Trabajo

*Updating the
International Standard Classification of Occupations (ISCO)*

*Draft ISCO-08 Group Definitions:
Occupations in Chemicals*

POLICY INTEGRATION DEPARTMENT
BUREAU OF STATISTICS

19/03/2008

ISCO-08 Draft Definitions - Chemicals

ISCO 08 Code

3133

Title EN

Chemical processing plant controllers

Lead Statement

Chemical processing plant controllers operate and monitor chemical plants and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals.

Task statement

Tasks include:

- (a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units;
- (b) adjusting equipment, valves, pumps, controls and process equipment;
- (c) controlling the preparation, measuring and feeding of raw materials and processing agents such as catalysts and filtering media into plant;
- (d) controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment;
- (e) verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance;
- (f) analyzing sample products, performing tests, recording data and writing production logs;
- (g) supervising other workers

Included occupations

Examples of the occupations classified here:

- Chemical-heat-treating-plant operator
- Chemical-filtering and separating equipment operator
- Chemical-still and reactor operator
- Chemical process technician

Excluded occupations

Petroleum and natural gas refining plant operators - 3134

Chemical products plant and machine operators - 8131

Notes

ISCO 08 Code**813****Title EN****Chemical and photographic products plant and machine operators****Lead Statement**

Chemical and photographic products plant and machine operators operate and monitor machines which process a variety of chemicals and other ingredients to produce pharmaceuticals, toiletries, explosives and photographic or other chemical products.

Task statement

Tasks performed usually include: operating and monitoring machines and equipment which blend, mix, package and otherwise process chemicals and chemical products to give them the desired properties for further industrial production, or to make finished products. Supervision of other workers may be included.

Included occupations

Occupations in this minor group are classified into the following unit groups:

Chemical products plant and machine operators - 8131

Photographic products machine operators - 8132

Excluded occupations

Chemical processing plant controllers - 3133

Petroleum and natural gas refining plant operators - 3134

Notes

ISCO 08 Code**8131****Title EN****Chemical products plant and machine operators****Lead Statement**

Chemical products plant and machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.

Task statement

Tasks include:

- Setting up, starting, controlling, adjusting and stopping machines and plant;
- Monitoring reaction processes and transfers of products in conformance with safety procedures;
- Monitoring meters, gauges and electronic instrumentation on one or more chemical or formulation units, such as mixers, kettles, blenders, dryers, tableting, encapsulation, granulation and coating machines;
- Measuring, weighing and loading chemical ingredients following formulation cards;
- Taking samples and performing routine chemical and physical tests of products and recording production data;
- Cleaning and performing minor repairs to machines and plant.

Included occupations

Examples of the occupations classified here:

- Operator, blender/petroleum and natural gas refining (ethyl)
- Machine operator, still/petroleum and natural gas refining
- Pharmaceutical and toiletry products machine operators.
- Machine operator, candle production.
- Machine operator, explosive products.

Excluded occupations

Chemical processing plant controllers - 3133

Petroleum and natural gas refining plant operators - 3134

Notes

ISCO 08 Code**8132****Title EN****Photographic products machine operators****Lead Statement**

Photographic-products machine operators operate and monitor equipment which makes photographic film and paper, and which processes exposed photographic film and makes prints.

Task statement

Tasks include:

- (a) operating and monitoring equipment which makes photographic film and paper;
- (b) operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards
- (c) preparing exposed film for different processing batches in dark rooms and dark chambers;
- (d) inspecting images, films, prints and adjusting settings on print-making equipment to produce required colour, brightness, contrast, number, size and type of prints
- (e) adjusting settings and running automatic developing equipment
- (f) operating equipment to transfer film to video tape or other electronic media;
- (g) performing photographic processing related tasks;
- (h) supervising other workers.
- (i) operating automatic equipment (in retail establishments) to develop colour negatives, prints and slides.

Included occupations

Examples of occupations classified here:

- Darkroom technician
- Photographic processor
- Photographic film printer
- Developing machine-operator - photography
- Enlarging machine-operator- photography
- Machine-operator, photographic-film
- Machine-operator, printing/photography (colour)
- Developer, film/colour
- Enlarger, photograph
- Printer, photograph

Excluded occupations

- Photographers - 3431

Notes

ISCO 08 Code**3134****Title EN****Petroleum and natural gas refining plant operators****Lead Statement**

Petroleum and natural gas refining plant operators operate and monitor plants and adjust and maintain processing units and equipment which refine, distil and treat petroleum, petroleum-based products and by-products, or natural gas.

Task statement

Tasks include:

- (a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units;
- (b) adjusting equipment, valves, pumps, controls and process equipment;
- (c) controlling process start-up and shut-down, troubleshooting and monitoring outside process equipment;
- (d) verifying equipment for malfunctions, testing well pipes for leaks and fractures and arranging for maintenance;
- (e) analyzing sample products, performing tests, recording data and writing production logs;
- (f) supervising other workers.

Included occupations

Examples of the occupations classified here:

- Operator, blender/petroleum and natural gas refining (ethyl)
- Operator, paraffin plant
- Operator, still/petroleum and natural gas refining
- Refinery process technician
- Petroleum process operator
- Gas plant operator

Excluded occupations

Chemical processing plant controllers - 3133

Chemical products plant and machine operators - 8131

Notes

Operators monitor refining process through computerized multi-function process control units.