



chemical engineering technician

Description

Chemical engineering technicians transform raw materials in order to develop and test chemical products. They also work on improving chemical plant operations and processes.

Alternative label

chemical engineering developer
 production chemistry technician
 chemical research technician
 chemical process engineering technician
 chemical industry engineering technician
 chemical engineering worker
 chemical operations engineering technician

Regulatory aspect

To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the Regulated Professions Database of the Commission.
 Regulated Professions Database:
http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en

Hierarchy

- ▼
- 3 Technicians and associate professionals
- ▼
- 31 Science and engineering associate professionals
- ▼
- 311 Physical and engineering science technicians
- ▼
- 3116 Chemical engineering technicians
- chemical engineering technician

Narrower occupations

asphalt laboratory technician
colour sampling technician
hazardous waste technician
chemical manufacturing quality technician

Essential skills and competences

analyse experimental laboratory data
apply safety procedures in laboratory
calibrate laboratory equipment
collaborate with engineers
determine production feasibility
ensure compliance with environmental legislation
execute analytical mathematical calculations
perform laboratory tests
perform product testing
prepare chemical samples
run laboratory simulations
test chemical samples
translate formulae into processes
use ICT systems
work safely with chemicals

Essential Knowledge

chemistry
engineering principles
engineering processes
laboratory techniques
production processes
quality assurance methodologies
risk management

Optional skills and competences

analyse production processes for improvement
archive scientific documentation
communicate with external laboratories
control production
dispose of hazardous waste
identify hazards in the workplace
keep records of work progress
maintain chromatography machinery
maintain laboratory equipment
maintain nuclear reactors
manage health and safety standards
recognise signs of corrosion
recommend product improvements
schedule production
set production facilities standards
supervise laboratory operations
use chromatography software
write batch record documentation

Optional Knowledge

[analytical chemistry](#)

[corrosion types](#)

[energy efficiency](#)

[hazardous waste storage](#)

[hazardous waste types](#)

[inorganic chemistry](#)

[nuclear energy](#)

[nuclear reprocessing](#)

[radiation protection](#)

Status

released

Concept URI

<http://data.europa.eu/esco/occupation/35bc3847-58ad-46f5-8921-e58acc2762a6>

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[DG Employment, Social Affairs and Inclusion](#) of the European Commission developed ESCO in collaboration with stakeholders and with the [European Centre for the Development of Vocational Training \(Cedefop\)](#) .

