



List of un-reviewed occupations and next steps

ESCO (2016) SEC FINAL
Document Date: 23/11/2016
Last update: 5/12/2016

Purpose of the document

On the 21st ESCO Maintenance Committee meeting on 14-15 September 2016, the Commission services presented a document listing the **271 occupations** that had been quality assured but not confirmed in one of the major validation steps: the work of the sectoral Reference Groups (SREF), the online consultation of stakeholders and the gap analysis against ISCO-08 and the national classifications.

In order to validate this list of occupations, the committee advised to check the list against some national classifications and determine in which of them they appear. Following this step, the Commission services will further cross-check the list against the national classifications that feature skills, such as Répertoire Opérationnel des Métiers et des Emplois (ROME) and Klassifikation der Berufe 2010 (KldB). This will allow validating most of the 271 occupational profiles on the basis of the knowledge embedded at national level in these classifications.

This document includes a detailed overview of where these occupations appear in the national classifications and proposes a number of further actions that could support the validation of these concepts. The Commission services share the document with the committee for consultation.

Clean-up before translations

In preparation for the translations of the ESCO content and following the suggestions of some of the MAI members, in the past two months the Commission services performed a general clean-up of the total list of occupations in ESCO. This task aimed to merge similar occupations and to fine-tune some preferred terms to further clarify the scope of the occupations. This is the case for example of the merging of occupations such as bishop or rabbi into the minister of religion, as proposed by a member of the committee, to align the level of granularity with the rest of the classification.

After this process, out of 271 occupations, a total of **45 occupations became obsolete**¹. As a result, ESCO contained 226 occupations that needed further validation.

Validation by cross-checking against national classifications

Following the advice of the committee, the Commission services scanned 5 national classifications for occupations corresponding to the **226 remaining occupations**:

- Répertoire Opérationnel des Métiers et des Emplois (ROME),

¹ arbitrator, bishop, butler, cardinal, cash handler, cash/prize kiosk management, clearing agent, coastguard rescue officer, compliance manager, conciliator, correctional instructor, county court bailiff, court of appeal judge, court registrar, customer Liaison, deacon, district judge, domestic couple, drill operator, editorial scientist, eyewear maker, foil printing machine operator, imam, immigration consultant, laundry and dry cleaning worker, laundry and dry cleaning workers supervisor, machine management, media scholar, medical device technician, military academy instructor, police academy instructor, premises management, priest, prison governor, pujari, rabbi, rail inspector, sacristan, theatre instructor, toy repairer, treasury officer, trial consultant, valet, vicar and youth court judge.

- Klassifikation der Berufe 2010 (KldB),
- Berufsinformationssystem (Austria),
- Competent (Belgium),
- Beroepen, Opleidingen en Competentieregister (the Netherlands).

Since all the national classifications are referenced to ISCO-08, we used the ISCO classification to organise the work. We followed the following process:

- We checked for each occupation in which national classifications it appears.
- In the case of ROME, we cross-checked also with the list of appellations.
- We analysed the descriptions of the occupations in the national classifications, as they provide information on skills or work activities and can help to determine if a particular occupation in ESCO appears in the national classification.

Findings

A total of **194² out of the 226 occupations** appeared at least in one of the national classifications. In 86% of these cases, the occupation appeared in more than one national classification.

[Annex 1 lists the 226 occupations and their appearance in the national classifications](#)

Next steps

Taking as a starting point the information of the appearance of the occupations in the national classifications, the Commission services will cross-check in detail the occupational profiles in ESCO with the ones in the national classifications in order to validate them.

Validation of remaining occupations through other means

32 out of the 226 occupations cannot be validated this way. The Commission services found two main reasons for that:

- The occupation does not appear in any national classification.
- In few cases where the occupation in the national classification is broader in scope than the corresponding ESCO occupation, we do not consider comparison with national classifications as a possible validation method.

The occupation does not appear in any national classification	The occupation in the national classification is broader than ESCO
bed and breakfast operator	amusement park cleaner
cigarette tester	cigarette stamper
cut tobacco bulker	competition policy officer
club host/hostess	fibreglass machine operator
charcoal mixer	filling machine operator

² 11% of the occupations appear in 2 national classifications, 21% appear in 3 national classifications, 23% appear in 4 national classifications and 15% in 5 national classifications

fibre machine tender	hair removal technician
fisheries adviser	marine surveyor
forestry inspector	mattress making machine operator
Handyman	camp counsellor
heat sealing machine operator	canvas goods assembler
Hunter	liquid fuel engineer
inmigration officer	public employment service manager
insulating tube winder	
nitroglycerin separator operator	
personal shopper	
public speaking coach	
recreation model maker	
ride technician	
speed reading instructor	
sports equipment repair technician	

Next steps

The Commission services invite the committee to discuss which steps to take as an additional final validation step for these remaining 32 occupations. We propose the following actions:

1. Use own expertise

Two of the 32 occupations could be validated using our own expertise or that of colleagues in our own organisations:

- public employment services officer: here we would seek support by the PES representatives in the committee;
- competition policy officer: the Commission has its own experts in this field.

2. Further bilateral meetings with experts

We suggest organising bilateral meetings with sectoral experts, in which they help us to validate and discuss occupations. We have identified the 32 occupations in different sectors to facilitate the task of targeting sectoral experts. We would welcome any support by the committee to identify experts and get them on-board.

- **Fishery:** fisheries adviser
- **Forestry:** forestry inspector, hunter
- **Amusement and recreation parks:** amusement park cleaner, ride technician
- **Manufacture of glass, plastic and rubber products:** fibre machine tender, fibreglass machine operator
- **Chemical products operations:** charcoal mixer, nitroglycerin separator operator
- **Sports and outdoor activities instructions:** camp counsellor
- **Manufacturing of cigarettes:** cigarette stamper, cigarette tester, cut tobacco bulker
- **Consumer goods materials manufacturing:** heat sealing machine operator, insulating tube winder

- **Consumer goods materials assembly:** canvas goods assembler
- **Manufacture of furniture:** mattress making machine operator
- **Manufacture of games, toys and entertainment goods:** recreation model maker
- **Accommodation services:** bed and breakfast operator
- **Food and beverage service operatives:** club host/hostess
- **Metal smoothing and polishing:** filing machine operator
- **Coaching activities:** public speaking coach, speed reading instructor
- **Hairdressing and beauty treatment:** hair removal technician
- **Services to buildings and landscape activities:** handyman
- **Domestic personnel:** personal shopper
- **Repair of personal and household goods:** sports equipment repair technician
- **Public order and safety:** immigration officer
- **General public administration:** competition policy officer, public employment service manager
- **Engineering and testing activities:** liquid fuel engineer, marine surveyor

3. Accept a small number of un-validated occupations

If a small number of occupational profiles with limited labour market relevance cannot be validated after these steps, we could consider it as acceptable for publication. We would however record the issue (non-validation) to be remediated after the publication of ESCO v1.

Annex 1: 226 occupations and their equivalents in the national classifications

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
aesthethician	5142	TRUE	TRUE	TRUE	TRUE	TRUE
agricultural inspector	3359	TRUE			TRUE	TRUE
agricultural policy officer	2422	TRUE			TRUE	TRUE
ambassador	1112	TRUE			TRUE	TRUE
ammunition assembler	8219					TRUE
amusement and recreation attendant	9629	TRUE			TRUE	TRUE
amusement park cleaner	5153					
animal shelter worker	5164	TRUE	TRUE	TRUE	TRUE	
anodising machine operator	8122	TRUE			TRUE	TRUE
anthropology lecturer	2310	TRUE			TRUE	TRUE
art director	2654					TRUE
attraction operator	9629	TRUE			TRUE	
auction house manager	3339					TRUE
au pair	5311	TRUE	TRUE		TRUE	TRUE
audio-visual technician	3521	TRUE		TRUE	TRUE	TRUE
barber	5141	TRUE	TRUE	TRUE	TRUE	TRUE
beauty salon attendant	5142	TRUE			TRUE	
bed and breakfast operator	5152					
bicycle courier	9331	TRUE			TRUE	TRUE
bicycle mechanic	7234	TRUE	TRUE	TRUE	TRUE	TRUE
blow moulding machine operator	8142	TRUE			TRUE	
body artist	3435	TRUE	TRUE		TRUE	TRUE
brokerage firm director	1349					TRUE
building cleaner	9112	TRUE	TRUE	TRUE	TRUE	TRUE
business economics researcher	2421					TRUE
camp counsellor	3423					
canvas goods assembler	8159					
car leasing agent	5223	TRUE		TRUE	TRUE	TRUE
case administrator	3411	TRUE	TRUE			
cigar brander	8183					TRUE
cigar inspector	7543			TRUE		
cigarette making machine operator	8160					TRUE
cigarette manufacturing operative	8160					TRUE
cigarette stamper	8183					
cigarette tester	7543					
civil enforcement officer	5419	TRUE	TRUE		TRUE	TRUE
cloak room attendant	9629	TRUE		TRUE	TRUE	TRUE
club host/hostess	5169					
coastguard watch officer	5419	TRUE			TRUE	TRUE
companion	5162	TRUE			TRUE	
competition policy officer	2422					
computer hardware	7422	TRUE		TRUE	TRUE	TRUE

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
repair technician						
consul	1112	TRUE			TRUE	TRUE
consumer electronics repair technician	7421	TRUE		TRUE	TRUE	TRUE
coroner	2619	TRUE	TRUE	TRUE	TRUE	TRUE
court administrator	1349	TRUE	TRUE	TRUE		
court bailiff	3411	TRUE	TRUE	TRUE		
court clerk	3411	TRUE		TRUE	TRUE	TRUE
criminal investigator	3355	TRUE		TRUE	TRUE	TRUE
criminologist	2632	TRUE	TRUE	TRUE	TRUE	TRUE
cultural policy officer	2422	TRUE			TRUE	TRUE
curing room worker	7516			TRUE		
customs officer	3351	TRUE	TRUE	TRUE	TRUE	TRUE
cut tobacco bulker	7516					
charcoal mixer	8131					
chemistry technician	3111	TRUE	TRUE	TRUE	TRUE	
child care coordinator	1341	TRUE			TRUE	TRUE
child day care centre Manager	1341	TRUE			TRUE	TRUE
chimney sweep	7133	TRUE	TRUE	TRUE	TRUE	TRUE
chimney sweep supervisor	7133			TRUE		TRUE
deburring machine operator	8122	TRUE			TRUE	TRUE
derrickhand	8113	TRUE			TRUE	TRUE
dip tank operator	8122	TRUE			TRUE	
domestic cleaner	9111	TRUE	TRUE	TRUE	TRUE	TRUE
drilling engineer	2146	TRUE	TRUE	TRUE	TRUE	TRUE
edge bander operator	8189	TRUE			TRUE	TRUE
electronic musical instrument maker	8212	TRUE			TRUE	TRUE
paper embosing press operator	7322					TRUE
emergency response coordinator	2263	TRUE			TRUE	TRUE
fermenter operator	8131	TRUE			TRUE	
fibre machine tender	8181					
fibreglass machine operator	8142					
filigree maker	7313		TRUE			
filing machine operator	8122					
fine arts instructor	2310	TRUE	TRUE	TRUE	TRUE	TRUE
fire commissioner	1112					TRUE
fisheries adviser	2132					
flexographic press operator	7322	TRUE	TRUE	TRUE	TRUE	TRUE
flight instructor	3153	TRUE	TRUE	TRUE	TRUE	TRUE
football coach	3422	TRUE	TRUE	TRUE	TRUE	
forecast manager	1324	TRUE			TRUE	TRUE
forestry inspector	3359					
furniture cleaner	9112	TRUE			TRUE	TRUE
gas transmission system operator	4323				TRUE	TRUE
genealogist	2633	TRUE		TRUE	TRUE	TRUE
geothermal power plant	3131	TRUE			TRUE	

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
operator						
goldsmith	7313	TRUE		TRUE	TRUE	TRUE
gravure press operator	7322	TRUE	TRUE		TRUE	TRUE
greaser	9329	TRUE			TRUE	TRUE
guide dog instructor	5164	TRUE			TRUE	TRUE
hair removal technician	5142					
hairdresser	5141	TRUE	TRUE		TRUE	TRUE
hairdresser assistant	5141	TRUE	TRUE	TRUE		TRUE
hairdressing vocational teacher	2320	TRUE		TRUE	TRUE	TRUE
handyman	9622					
harp maker	7312	TRUE	TRUE		TRUE	TRUE
harpichord maker	7312	TRUE	TRUE		TRUE	TRUE
hazardous waste inspector	3257	TRUE			TRUE	TRUE
hazardous waste technician	3116	TRUE		TRUE	TRUE	
healthcare consultant	2422	TRUE	TRUE		TRUE	TRUE
heat sealing machine operator	8183					
house sitter	5153	TRUE			TRUE	TRUE
household appliances repair technician	7412	TRUE		TRUE	TRUE	TRUE
hunter	6224					
idiophone musical instruments maker	7312	TRUE			TRUE	TRUE
immigration officer	3351					
immigration policy officer	2422					TRUE
industrial waste inspector	3257	TRUE	TRUE		TRUE	TRUE
insulating tube winder	8142					
interpretation agency manager	1349					TRUE
jewellery polisher	7313	TRUE	TRUE	TRUE	TRUE	TRUE
jewellery repairer	7313	TRUE		TRUE	TRUE	TRUE
journalism lecturer	2310	TRUE				TRUE
judge	2612	TRUE	TRUE	TRUE	TRUE	TRUE
justice of the peace	3411	TRUE		TRUE	TRUE	TRUE
juvenile correctional officer	5413					TRUE
kennel supervisor	5164	TRUE	TRUE		TRUE	TRUE
kennel worker	5164	TRUE	TRUE		TRUE	TRUE
knitter	7318			TRUE		TRUE
knitting machine operator	8152	TRUE	TRUE	TRUE	TRUE	TRUE
law lecturer	2310	TRUE			TRUE	TRUE
leaf sorter	7516	TRUE			TRUE	
leaf tier	7516			TRUE	TRUE	
leaflet distributor	9510	TRUE				
licensing manager	1221					TRUE
liquid fuel engineer	2145					
liquid waste treatment plant operator	3132	TRUE			TRUE	
lithographer	7321	TRUE		TRUE	TRUE	TRUE

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
locker room attendant	9629	TRUE		TRUE	TRUE	TRUE
manicurist	5142	TRUE	TRUE	TRUE	TRUE	TRUE
marine surveyor	3115					
materials engineer	2149	TRUE	TRUE		TRUE	TRUE
mattress making machine operator	8159					
membranophone musical instruments maker	7312	TRUE			TRUE	TRUE
missionary	2636		TRUE	TRUE		TRUE
mobile phone repair technician	7422		TRUE	TRUE		
monk/nun	2636			TRUE		
mud logger	2114	TRUE			TRUE	TRUE
nanoengineer	2149	TRUE	TRUE	TRUE	TRUE	
network marketeer	2431					TRUE
nitroglycerin separator operator	8131					
occupational railway instructor	2320					TRUE
offset printer	7322	TRUE	TRUE	TRUE	TRUE	TRUE
oil and gas production manager	1322				TRUE	
oil rig motorhand	8113		TRUE			
optical instrument repairer	7311	TRUE		TRUE	TRUE	TRUE
organ builder	7312	TRUE	TRUE	TRUE	TRUE	TRUE
outdoor activities instructor	3423	TRUE	TRUE	TRUE	TRUE	TRUE
parking valet	8322	TRUE			TRUE	
performance rental technician	3521				TRUE	
personal shopper	5223					
personal stylist	5142	TRUE			TRUE	TRUE
pesticides sprayer	7544	TRUE			TRUE	
petroleum engineer	2146	TRUE		TRUE	TRUE	TRUE
pharmacy lecturer	2310					TRUE
photography teacher	2355	TRUE			TRUE	
photonics engineering technician	3119			TRUE		
piano maker	7312	TRUE	TRUE	TRUE	TRUE	TRUE
police commissioner	1112	TRUE			TRUE	TRUE
police detective	3355	TRUE		TRUE	TRUE	TRUE
police inspector	3355	TRUE			TRUE	TRUE
prepress operator	7321	TRUE	TRUE	TRUE	TRUE	TRUE
private chauffeur	8322	TRUE		TRUE	TRUE	TRUE
private chef	3434	TRUE			TRUE	
production supervisor	3122	TRUE			TRUE	TRUE
programme manager	1213	TRUE			TRUE	TRUE
project manager	1219	TRUE		TRUE	TRUE	TRUE
prosecutor	2611	TRUE	TRUE	TRUE	TRUE	TRUE
prosthetic orthotics technician	3214	TRUE		TRUE	TRUE	TRUE
provincial governor	1111	TRUE			TRUE	TRUE
psychology lecturer	2310	TRUE			TRUE	TRUE

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
public employment service manager	3333					
public funding advisor	3312					TRUE
public speaking coach	2359					
purchasing manager	1324	TRUE	TRUE	TRUE	TRUE	TRUE
rail construction supervisor	3123	TRUE			TRUE	TRUE
railway infrastructure inspector	3359					TRUE
recreation model maker	7522					
rental manager	5249	TRUE			TRUE	TRUE
rental service representative	5249	TRUE			TRUE	TRUE
reprographics technician	7322	TRUE		TRUE	TRUE	TRUE
resource manager	1324	TRUE			TRUE	
respiratory therapy technician	3211					TRUE
ride technician	7412					
rigging supervisor	7215	TRUE			TRUE	TRUE
roughneck	8113	TRUE	TRUE		TRUE	TRUE
roustabout	8113	TRUE	TRUE		TRUE	TRUE
rustproofing	8122	TRUE	TRUE		TRUE	TRUE
sales manager	1221	TRUE	TRUE	TRUE	TRUE	TRUE
screen printer	7322		TRUE	TRUE	TRUE	TRUE
sewerage cleaner	9129	TRUE		TRUE	TRUE	TRUE
shoe repairer	7536	TRUE	TRUE	TRUE	TRUE	TRUE
snow-clearing worker	8342	TRUE			TRUE	
soil scientist	2133	TRUE				TRUE
speed reading instructor	2359					
sports equipment repair technician	7319					
statistical assistant	3314					TRUE
stone engraver	7113	TRUE	TRUE	TRUE	TRUE	TRUE
stone planer	8112	TRUE	TRUE		TRUE	TRUE
street sweeper	9613	TRUE		TRUE	TRUE	TRUE
street warden	5414	TRUE		TRUE	TRUE	TRUE
stringed musical instrument maker	7312	TRUE	TRUE	TRUE	TRUE	TRUE
surgical instrument maker	7311		TRUE	TRUE		TRUE
swaging machine operator	7223	TRUE			TRUE	TRUE
swimming facility attendant	9129	TRUE			TRUE	TRUE
swimming teacher	3422	TRUE		TRUE	TRUE	TRUE
tax compliance officer	3352	TRUE	TRUE		TRUE	
tax inspector	3352	TRUE		TRUE	TRUE	TRUE
textile pattern making machine operator	8159		TRUE			
toilet attendant	9112	TRUE		TRUE	TRUE	TRUE
tool pusher	8113	TRUE	TRUE	TRUE	TRUE	TRUE
toymaker	7317	TRUE	TRUE	TRUE	TRUE	TRUE
translation agency manager	1349					TRUE

ESCO occupation	ISCO-08	ROME	Klassifikation der Berufe	Berufsinformationssystem	Competent	Beroepen, Opleidingen en Competentieregister
transport engineer	2142	TRUE	TRUE	TRUE	TRUE	TRUE
twisting machine operator	8151	TRUE	TRUE		TRUE	TRUE
typesetter	7321	TRUE	TRUE	TRUE	TRUE	TRUE
typist	4131	TRUE	TRUE	TRUE	TRUE	TRUE
underwater construction supervisor	3123	TRUE				TRUE
vehicle rental agent	5249	TRUE			TRUE	TRUE
violin maker	7312		TRUE	TRUE		TRUE
watch and clock repairer	7311	TRUE	TRUE	TRUE	TRUE	TRUE
wedding planner	3332	TRUE		TRUE	TRUE	
weights and measures inspector	3359					TRUE
well-digger	8113	TRUE	TRUE	TRUE	TRUE	TRUE
winding machine operator	8151	TRUE			TRUE	
window cleaner	9123	TRUE		TRUE	TRUE	TRUE

