

Skills hierarchy progress report MAI 31-03

European Skills, Competences, Qualifications and Occupations



Cover note

The draft hierarchy of the ESCO skills pillar (the two first levels that were available at that time) was presented to the MAI meeting of 24 May 2019. The aim was to explain to the MAI members the core principles applied in this exercise and to receive their support, feedback and suggestions to the work of the experts. Following that meeting and based on the discussions and advice received, the experts continued the exercise with constructing the third level of the new structure, while further work was done by the ESCO team for the allocation of ESCO's knowledge concepts.

This Progress Report, drafted by the experts and reported below, represents an updated version of the skills hierarchy and was submitted to the Commission for consideration.

At this stage, the draft hierarchy represents an important progress towards better structuring the ESCO skills pillar. Further adjustments of the hierarchy may be needed on the basis of concrete feedback on its practical usability, coming from CEDEFOP, Eures, the European Qualifications Framework and the new Europass. The outcome of the two workshops of the 31st MAI will also inform the assessment of the proposed structure, as they will give concrete indications on the practical results of the skills hierarchy for job matching purposes. The Commission will consolidate all feedback on the current draft skills hierarchy, including the outcomes of the two workshops, in a document that will be shared with the experts. A final meeting will be organised with the experts by early October in order to agree on a final draft, with the aim of starting with the allocation of skills in the draft hierarchy in October.

As part of this evaluation phase, the Commission invites the MAI's input on the following aspects:

- Current status of the hierarchy regarding the structure and groups proposed
- Its appropriateness for application in the various ESCO use cases, including:
 - Matching of jobseekers with job vacancies;
 - Annotating qualifications with ESCO skill and knowledge concepts;
 - Mapping national skill and knowledge classifications to ESCO;
 - Creating skill (self-)assessment tools;
 - Providing targeted career guidance.

Way forward

Following the allocation of ESCO skills in the new groups, it will be important to test the hierarchy on the basis of usability tests in order to identify potential gaps. Workshop 1 of the MAI meeting of 20 September 2019 will examine the requirements of ESCO implementers from the new structure with the use of concrete examples of use cases. This will allow MAI members to gain insight into the applicability of the draft ESCO skills hierarchy, in view of testing that will follow the allocation of the 10,648 ESCO skills to the different groups of the hierarchy. The Commission therefore invites the MAI's input on a usability testing plan for the skills hierarchy, including the actors and use cases to be involved, the number of testing iterations and the metrics to collect through the exercise.



Development of the ESCO Skills and Knowledge Classification Update on Progress for 31st ESCO MAI, 2 September 2019¹

Executive Summary

The ESCO Skills and Knowledge Classification is being developed as a single hierarchical framework containing several distinct sub-classifications: Knowledge; Skills/competences; Attitudes and values; and Language skills and knowledge. Within each of these broad sections the concepts are structured in a three-level hierarchy based on characteristics customized for each sub-classification.

The ESCO knowledge concepts have been mapped to the International Standard Classification of Education Fields of Education (ISCED-F) and the majority were allocated to a single ISCED detailed field. However, a significant proportion (almost 17%) requires further consideration. The current allocations are to be reviewed by an expert to correct them as required and make recommendations on adjustments to the hierarchy, and if necessary to some of the knowledge concepts, to improve relevance for the intended uses of ESCO.

A third level of the previously developed hierarchy for skills/competences has now been extended with the aim of being providing categories that are as homogeneous as possible in relation to at least one of the following characteristics:

- a. Tools and equipment used;
- b. The type of object on which the work is performed;
- c. The function or outcome of the task or activity.

In total there are 12 Level 1 groups, 59 Level 2 groups and 223 Level 3 groups in the Skills/competences section of the hierarchy. Most of the Level 3 categories were based on the 332 Intermediate Work Activities (IWA) specified in the US O*NET either singly or clustered. As part of the process of validating the hierarchy, several additional categories were created by clustering of concepts found in the ESCO Skills Pillar and almost 2000 ESCO concepts have already been allocated to the hierarchy.

All remaining ESCO skill/competence concepts are now to be mapped to the hierarchy using guidelines developed by the expert team. Once allocation of the ESCO Skill concepts has been completed, the allocations should be reviewed by experts in labour market classification in order to validate the allocations, make adjustments to the hierarchy and identify ESCO skills that need to be rationalised or adjusted.

We consider the current version of the hierarchy to be a working tool only and that a "final" Version 1 of a European KSC Classification will emerge once all or the large majority of KSCs have been assigned to it and once feedback from mapping national skill classifications has been incorporated. We are concerned, however, that it will be extremely difficult for member states to map their national classifications directly to the ESCO skill concepts unless these are first rationalised. We believe, therefore, that a high priority should be given to reviewing and rationalising the skill concepts whilst structuring them.

¹ Prepared by David Hunter and Claudia Plaimauer



Introduction

This report provides an update for the 31st meeting of the ESCO Maintenance Committee (ESCO MAI) on progress with the development of a hierarchical classification for the 13,486 knowledge, skills and competence (KSC) concepts defined in the ESCO Skills Pillar (ESCO Skills and Knowledge Classification). The skill and knowledge hierarchy² will enable users to search and retrieve the ESCO skill and knowledge concepts systematically for a variety of purposes, including:

- Compiling CVs and job vacancies;
- Matching of jobseekers with job vacancies;
- Annotating qualifications with ESCO skill and knowledge concepts;
- Mapping national skill and knowledge classifications to ESCO;
- Creating skill (self-)assessment tools;
- Providing targeted career guidance.

A single all-embracing hierarchical framework containing several distinct sub-classifications has been developed. Each subclassification is structured according to different principles and targets different types of knowledge and skill/competence concepts:

- Knowledge,
- Skills/Competences
- Attitudes & values,
- Language skills and knowledge.

Within each of these broad sections the concepts are structured differently, based on different types of characteristics. The principles and methods used for the design of the ESCO Skills and Knowledge Classification were described in detail in the progress report presented at the 30th ESCO MAI meeting and are not repeated here.

Knowledge concepts

At the time of the 30th ESCO MAI meeting it was agreed that the 2,837 ESCO concepts defined as knowledge in the ESCO Skills Pillar would be mapped to the 80 detailed fields (4-digit classes) at the third level of the International Standard Classification of Education, Fields of Education (ISCED-F). The resulting allocations be would then be assessed to determine whether any adjustments to the ISCED-F hierarchy would be necessary to adapt it for the purposes of ESCO.

Following that meeting, detailed guidelines for the allocation of ESCO Knowledge concepts to ISCED-F were developed by the team of three experts engaged to support the Commission Services in the development of the ESCO Skills and Knowledge Classification. These guidelines were then used to allocate each of the knowledge concepts to the third level of ISCED-F.

As proposed by the experts, the ESCO team carried out the allocation in two phases:

1. **First phase - bulk allocation of ESCO knowledge concepts to ISCED-F:** the ESCO team used as a starting point ISCED-F and searched from each ISCED detailed field for those ESCO knowledge concepts that fit to each one of the fields;

² The terms "classification" and "hierarchy" are used more or less interchangeably in this report.



Second phase - single knowledge concepts allocation: the ESCO team used as starting point
the ESCO and searched for the appropriate field in ISCED to which each ESCO knowledge
concept can be allocated.

During the first phase, the work was divided among the members of the ESCO team by assigning specific ISCED-F broad and narrow fields to each person. Despite the challenges that came along, this proved to be a fast process. By the end of this exercise, the ESCO team had allocated 1706 ESCO knowledge concepts to the fields of ISCED. The remaining 1131 knowledge concepts passed to the second phase. Again, the work was divided among the members of the ESCO team who went through each single ESCO knowledge concept and allocated them to the fields of ISCED.

For a total number of 2 837 knowledge concepts, the exercise ended with:

- 198 equivocal allocations, i.e. ESCO concepts which colleagues classified under more than one field of ISCED;
- 219 doubtful allocations;
- 5 concepts were allocated to "not further defined" categories, meaning that they could be mapped to an ISCED broad or narrow field, but were not specified with sufficient detail or were broader than the relevant ISCED detailed fields;
- 15 were allocated to "not elsewhere classified" categories, meaning that they can be allocated to a narrow field but do not belong to any of the detailed fields included in the narrow field; and
- 37 knowledge concepts which the ESCO team was not able to map to any of the fields.

Whilst a large majority of the knowledge concepts could be allocated to a single ISCED detailed field, a significant proportion (almost 17%) require some further consideration. The problems encountered were due to a range of different types of reason, including:

- Several ESCO knowledge concepts are not the result of an official education program,
 e.g. gambling, betting; therefore, the team could not decide where to allocate them
 and placed these concepts to "9999 field Unknown".
- Boundaries between ISCED-F categories were not always clear;
- ESCO knowledge concepts were related to more than one ISCED field;
- Several ESCO knowledge concepts were not sufficiently precise or too broad.

Based on these challenges the team concluded that a hierarchy based purely on ISCED-F - a statistical classification - would not address the majority of the ESCO users' needs. We had indeed anticipated from the outset that there was likely to be a need to make some adjustments to ISCED-F in order to adapt it for the purposes of ESCO.

It is proposed to engage an expert with detailed knowledge of ISCED-F to review the current allocations, correct them if necessary, and make recommendations on adjustments to the ISCED-F hierarchy for the purposes of grouping ESCO knowledge concepts. In cases where ESCO knowledge concepts are broader than ISCED-F detailed fields, careful consideration will be necessary to decide, whether the classification or the knowledge concept should be amended.



Skills

At the time of the 30th MAI meeting the draft Skills Section of the hierarchy comprised categories mainly at the first and second hierarchical levels, with only a few second level categories further broken down to give an idea of what a 3-level hierarchy might look like. The top two layers had been adapted mainly from the skill groupings in the Canadian Skills and Knowledge glossary but also incorporated some features adapted from other national hierarchies.

The primary consideration in the design of groups and in the allocation of skill/competence concepts to groups is the relevance of the skill and of groups of similar skills for mobility between occupations (skill transferability). In support of this objective, the groups were designed to be as homogeneous as possible in relation to at least one of the following characteristics:

- a. Tools and equipment used;
- b. The type of object on which the work is performed;
- c. The function or outcome of the task or activity.

Following the 30th MAI meeting the third level was developed further, using these same principles. To ensure comprehensive coverage, the process involved initially mapping the 332 Intermediate Work Activities (IWA) specified in US O*NET to the second level of the hierarchy. Most of the Level 3 categories were created based on mapped IWAs that were used either singly or clustered to form Level 3 categories. For each proposed category based on the IWA, keyword searches and filtering of the ESCO skills concepts were used to ensure the relevance of the category for ESCO. All ESCO Skill concepts linked to more than 100 ESCO occupations were also mapped to the hierarchy. As a result, some additional Level 3 categories were created based on clustering of concepts found in the ESCO Skills Pillar. As a by-product of this process of validating the hierarchy, almost 2000 ESCO skills concepts were allocated to the hierarchy. Definitions and scope statements for level 3 categories were developed in those cases where we felt the content might not be obvious and in some other cases when this was easy.

Whilst this development strategy has allowed us to be reasonably sure that the hierarchy is comprehensive, the heterogeneity and overlapping nature of many of the IWAs made it a painstaking process which took longer than expected.

A code scheme starting with an initial character followed by up to 4 digits has been used to identify and order categories in the hierarchy. The initial characters K, S, A, and L are used to denote whether the concept belongs to the Knowledge, Skills, Attitudes and Values, or Language sections of the hierarchy. In the Skills section the first two digits denote the Level 1 group, the first three digits denote the level 2 group, and the full four digits denote the Level 3 group. To accommodate ESCO skill concepts and IWA that are broader than the Level 3 categories or that do not fit into any of the level 3 categories, 4-digit codes ending in zero have been assigned to each Level 1 and 2 category. This will allow any of the ESCO SC that cannot be allocated to the 4-digit categories to be assigned a 4-digit code ending in zero.

The full structure and definitions of categories in the Skills Section of the hierarchy can be found in the annexes to this report.



Table 1: Extract from the Skills Section of the ESCO Skills and Knowledge Hierarchy showing 4-digit codes, Group Titles and Definitions

S0400	Operating Machinery, Vehicles and Specialised Equipment	Controlling, operating and monitoring vehicles, stationary and mobile machinery and precision instrumentation and equipment.
S0410	Operating mobile machinery and equipment	Controlling the operation of vehicles and of machinery whose mobility is an integral part of its function.
S0411	Operating earthmoving equipment	Operating equipment for moving, excavating, smoothing or shaping earth
S0412	Operating agricultural or forestry equipment.	Operating mobile equipment specifically designed for agricultural or forestry purposes, such as cultivating land or harvesting crops and trees.
S0413	Operating lifting or moving equipment.	Operating equipment for lifting and moving objects, such as cranes, hoists, cable cars and lifting trucks
S0414	Driving heavy road vehicles.	Driving heavy vehicles, such as trucks and buses for the transportation of goods or people
S0415	Operating light vehicles	Controlling the movement of light vehicles such as motorcycles cars, taxis, vans and light trucks
S0416	Operating rail vehicles	Controlling the movement of rail vehicles such as trains and trams
S0417	Operating watercraft	Operating and controlling the movement of watercraft, including ships, boats and other vessels
S0418	Operating aircraft	Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones

Six Level 2 categories have not yet been further broken down and are also denoted by 4-digit codes ending in zero:

S0170 Using hand tools

S0510 Programming computer systems

S0530 Setting up computer systems, networks, or other information systems

S0540 Resolving computer problems

S0820 Washing and maintaining textiles and clothing

S1130 Managing information

In total there are 12 Level 1 groups, 59 Level 2 groups and 223 substantive Level 3 groups including 6 that are identical to the Level 2 groups that have not yet been further disaggregated. Counting the 4-digit codes ending in zero to accommodate ESCO concepts that are broader than the defined Level 3 categories there are 288 valid 4-digit codes. During the mapping process it would also be prudent



to provide a code for ESCO Skill concepts that cannot be mapped to any category at any level of the ESCO hierarchy. S9990 is suggested for this purpose.

Once all ESCO Skills concepts have been allocated to the hierarchy, it will be necessary to review the concepts assigned a code ending in zero to determine the need to create new categories to accommodate them, or to adjust the scope of existing categories. This is likely to result in a slight increase in the total number of substantive categories at Level 3.

To accommodate the IWA and also important groups of concepts that were identified as part of validation of the hierarchy, the scope of some Level 2 categories was extended and some new Level 2 categories were created. As a result only four IWA are not able to be assigned to any category:

- Examine people or animals to assess health conditions or physical characteristics. (reason: the ESCO skills classification deals with animals and humans in different categories)
- Select materials or equipment for operations or projects.
- Perform agricultural activities. (reason: IWA is broader than level one categories of the ESCO skills classification)
- Care for plants or animals.(reason: the ESCO skills classification deals with caring for plants and animals in different categories)

All other IWA have been assigned a 4-digit code from the ESCO skills and knowledge hierarchy. In most cases these codes are substantive categories at the third level of the Skills Section of the ESCO hierarchy, while a few could only be allocated to higher level groups, as they are broader than the third level categories.

Attitudes and values

The existing ESCO transversal skills hierarchy includes a section for attitudes and values, defined as "Individual work styles, preferences and work-related beliefs that underpin behaviour so that knowledge and skills are applied effectively"³. It is noted that the categories included among attitudes and values should be used "for describing behaviour which can be learned, improved and assessed" not for "labelling people's character" (ibidem). However, these concepts are strongly focussed on the attributes of persons rather than on characteristics of jobs or occupations such as tools and equipment used, the type of object on which the work is performed or even the function or outcome of a task or activity. Therefore, they cannot be organised into groups on the same basis as other skill concepts.

Sixteen attitude concepts and three value concepts are listed in the transversal skills hierarchy. Although not a single occupation is linked directly to any transversal attitude or value, significant numbers of cross-sectoral and sector-specific skills/competences have been linked to these and are in turn allocated to occupations. For example, the concept "finish project within budget" is listed as a narrower skill/competence of the attitude "meet commitments" and is represented as an essential skill/competence of some 27 occupations.

A separate section for attitudes and values is provided in the new hierarchy reflecting their different nature. This section includes separate categories at Level 1 for attitudes and for values. At level 2 separate categories are included for each of the sixteen transversal attitudes and the three

³ http://daa.europa.eu/esco/skill/81c66e05-0b64-4cc5-8707-432f59fb6528



transversal values concepts. At this stage two of these Level 2 categories have been further disaggregated to provide Level 3 categories for distinct clusters of similar concepts. As with the Skills Section of the hierarchy, 4-digit codes ending in zero have been created for each Level 1 and 2 category to allow the allocation of ESCO concepts to these categories as required.

Table 2: Extract from the Attitudes and Values Section of the ESCO Skills and Knowledge Hierarchy showing 4-digit codes, Group Titles and Definitions

A1120	Manage quality	Pursue excellence in workplace processes, products and activities.
A1121	Assure quality of processes and products	Ensure the quality of all factors involved in a production process and establish quality standards and procedures for quality control
A1122	Apply quality standards	Follow defined procedures and standards which prevent errors in the creation and delivery of a product or a service to customers
A1123	Provide high quality client service	Respond to the expectations of clients and customers in a professional manner, anticipating and addressing their needs and desires, to ensure customer satisfaction and loyalty.
A1130	Meet commitments	Perform one's tasks in a self-disciplined, reliable and goal-oriented manner.
A1131	Meet deadlines	Ensuring that operative processes are finished at a previously agreed time
A1132	Assume responsibility	Accepting responsibility and accountability for one's own professional decisions and actions, or those delegatged to others.
A1132	Stay within budget	Sticking to an agreed budget and adapting work and materials to budget

Language skills and knowledge

A different approach was taken for language skills and knowledge, at least partly because the languages themselves are labelled as knowledge concepts and the four categories of language competence "interact verbally", "write", "understand spoken" and "understand written" (structured in accordance with the Common European Framework for Languages (CEFRL)) are listed as skills for almost all of the languages included. A Level 1 category was created for each living language as well as for generic language skills – E.g. (Use foreign languages) and for dead languages. Level 2 then covers each of the four categories of language competence for each language, thus:

Language skills and knowledge
Generic language skills and knowledge
Speak different languages
Translate and interpret
Albanian
interact verbally in Albanian
write Albanian
understand spoken Albanian

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understand written Albanian Armenian

and so forth.

Few of the KSC related to specific languages are linked directly to a particular occupation. Identification of each individual language, however, will be useful for applications of the skills pillar in activities such as matching job seekers with job vacancies, as skills in one or more specific languages will be a requirement for many jobs.

In the case of English, the skills pillar does include KSC that are directly linked to occupations, including Aviation English and Use maritime English. A separate level 3 category termed "Technical language in English" allows these related skills to be grouped together.

Each living language is listed in alphabetical order in English, and the classification codes are based on that order. This is somewhat arbitrary, however, and may not make a lot of sense when the hierarchy is translated into other languages. Any new languages added to the skills pillar would need to be added at the end. Alternative approaches to ordering or grouping of the languages could be considered but would have limited benefit for most practical purposes.



Next steps and recommendations Allocate ESCO concepts to the hierarchy

The ESCO team will map all ESCO skill/competence concepts to the hierarchy using guidelines developed by the expert team. This exercise should involve an initial process of bulk mapping using keyword searching similar to the process used for the knowledge concepts. All concepts not mapped using this bulk method will need to be mapped individually.

The correspondence table between the O*NET IWA and the ESCO hierarchy will be a useful resource to assist with the mapping process. Searching the IWA to identify terms used in the ESCO concepts would allow relevant categories in the ESCO hierarchy to be identified. The heterogeneity of some of the IWA, however, means that a full one-to-one correspondence between the IWA and the 3rd level categories cannot always be assumed. In all cases, therefore, it would be important to compare the description of the ESCO Skill concept with the desription of the category in the hierarchy, before making a final decision on the allocation.

If necessary the O*NET Detailed Work Activities (DWA) (2,070 concepts) which are further contextualised into Tasks (17,368 concepts) and linked to the IWA could be used as supplementary search resources. These data could also be exploited by the ESCO mapping platform to support the mappings between national skills systems and ESCO.

Each concept should be allocated to one and only one subcategory in the hierarchy, while making note of any cases where ESCO KSCs might usefully be assigned to more than one higher level category.

Orphaned skill concepts

914 of the 13,486 concepts defined in the skills pillar are not (at least not directly) linked to any occupation. Approximately half of these are transversal KSCs having been considered too general for occupational skills profiles. Most of these transversal KSCs are used as broader terms of cross-sectoral, or sector-specific skills which are in turn linked to occupations. The remaining KSCs also unused in occupational skills profiles are cross-sectoral or sector-specific ones. Only very few of these have been used as broader terms for grouping cross-sectoral or sector-specific KSCs, whilst the majority has not even been used for this purpose either, and thus must be regarded as "orphaned", e.g.

- "address side effects of menopause" (a sector-specific skill)
- "airport terminal standards" (sector-specific knowledge)
- "create working methodology" (a cross-sectoral skill)
- "fishing industry" (cross-sectoral knowledge)

We recommend excluding those orphaned KSCs from structuring or firstly adding them to appropriate occupational skills profiles. All other skills/competence and knowledge concepts so far unused in occupational profiles should be incorporated into the new hierarchy, no matter what skill reusability level is assigned to them

Review allocations and adjust the hierarchy

Once allocation of the ESCO Skill concepts has been completed we recommend that the allocations be reviewed by experts in labour market classification in order to:

- 1. Validate the allocations;
- 2. Propose adjustments to the hierarchy to accommodate any clearly defined ESCO skill

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concepts that could not be allocated to any of the substantive third level categories;

- 3. Identify groups at all levels that are excessively heterogeneous
- 4. Identify groups that are not linked to a sufficiently significant number of skill concepts or occupations to justify their separate identification
- 5. Propose adjustments to the hierarchy to improve its useability, including the ordering of categories at all levels.
- 6. Amend ESCO skills if they proved to be too heterogeneous, too vague or too complex to be allocated to the skills classification.

We recognize that the current ordering of categories at all levels in the hierarchy is not the most intuitive or user-friendly for purposes such as browsing, or a classified display of occupational skills profiles. Comments have been made to this effect. Changing the ordering, however, is a relatively complex process as it involves reassignment of classification codes. We have therefore avoided significant reordering until all allocations of skills and adjustments to the hierarchy are completed. At that point we recommend consideration of improvements to the ordering of categories and coding scheme.

We still consider the current version of the hierarchy to be a working tool only. The "final" Version 1 of a European KSC Classification will emerge once all or the large majority of KSCs have been assigned to it and once feedback from mapping national skill classifications has been incorporated.

Review and rationalise ESCO Skill concepts

As noted in our report to the 30th MAI, skills concepts in the ESCO skills pillar overlap with each other or are effectively the same, as they have been drafted by different sectoral working groups, not paying sufficient attention to cross-sectoral applicability and a uniform terminology. Many are specified in such a way that they include different skills that should be assigned to different categories at the top level of the skills hierarchy. Others are excessively specific. We are concerned, that it will be extremely difficult for member states to map their national classifications directly to the ESCO skill concepts unless these are first rationalised. We believe, therefore, that a high priority should be given to also reviewing and rationalising the skill concepts whilst structuring them.

Looking further ahead

In the context of ESCO's ongoing improvement programme the development of the ESCO skills and knowledge structure should not end with this first classification of concepts but strive towards an even more refined structure in the future. This could potentially take the form of a fourth layer in the classification or of transformation of the repository of skills and knowledge into a thesaurus, leading form the general to the more specific, within the framework of a relatively flat classification hierarchy. Once ESCO's KSCs have been classified according to the hierarchy, options for further development may become clearer.



Annex 1: Level 1 Categories in the Skills Section of the ESCO Skills and Knowledge Hierarchy

S01	Handling and moving
S02	Working with animals
S03	Constructing
S04	Operating machinery, vehicles and specialised equipment
S05	Interacting with computers
S06	Installing, maintaining and repairing equipment and machinery
S07	Assisting and caring for others
S08	Cleaning and waste disposal
S09	Creative thinking and expression
S10	Communication, collaboration and social interaction
S11	Collecting, storing, monitoring, and using information
S12	Managing people, activities, resources, and organisations



Annex 2: Level 1 and 2 Categories in the Skills Section of the ESCO Skills and Knowledge Hierarchy

S010 Handling and moving S011 Sorting and packaging goods and materials S012 Moving and lifting S013 Transforming and blending materials S014 Tending plants and crops S015 Assembling and fabricating products S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals S021 Handling animals		
S012 Moving and lifting S013 Transforming and blending materials S014 Tending plants and crops S015 Assembling and fabricating products S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S013 Transforming and blending materials S014 Tending plants and crops S015 Assembling and fabricating products S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S014 Tending plants and crops S015 Assembling and fabricating products S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S015 Assembling and fabricating products S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S016 Making moulds, casts, models and patterns S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S017 Using hand tools S018 Positioning materials, tools or equipment S020 Working with animals		
S018 Positioning materials, tools or equipment S020 Working with animals		
S020 Working with animals		
S021 Handling animals		
S022 Caring for animals		
S030 Constructing	Constructing	
S031 Building and repairing structures	Building and repairing structures	
S032 Installing interior or exterior Infrastructure	Installing interior or exterior Infrastructure	
S033 Finishing interior or exterior of structures	Finishing interior or exterior of structures	
S040 Operating Machinery, Vehicles and Speciali	Operating Machinery, Vehicles and Specialised Equipment	
S041 Operating mobile machinery and equipment		
S042 Operating machinery for the extraction and processing	of raw materials	
S043 Operating machinery for the manufacture of products		
S044 Using precision instrumentation and equipment		
\$050 Interacting with computers		
S051 Programming computer systems		
S052 Implementing security measures for computers or info	rmation systems	
S053 Setting up computer systems, networks, or other information	mation systems	
S054 Resolving computer problems		
S055 Using digital tools		
\$060 Installing, Maintaining and Repairing Equip	Installing, Maintaining and Repairing Equipment and Machinery	
S061 Installing, maintaining and repairing mechanical equipments	-	



	Lommission		
S062	Installing, maintaining and repairing electrical, electronic and precision equipment		
S070	Assisting and Caring for Others		
S071	Counselling and nurturing		
S072	Providing health care or medical treatments		
S073	Protecting and enforcing		
S074	Providing information and support to the public and clients		
S075	Preparing, cooking, serving		
S076	Providing general personal care		
S080	Cleaning and waste disposal		
S081	Cleaning		
S082	Washing and maintaining textiles and clothing		
S083	Handling and disposing of waste and hazardous materials		
S090	Creative thinking and expression		
S091	Solving problems		
S092	Designing systems and products		
S093	Creating artistic, visual or instructive materials		
S094	Writing and composing		
S095	Performing and entertaining		
S100	Communication, collaboration and social interaction		
S101	Negotiating and adjudicating		
S102	Liaising and networking		
S103	Teaching and training		
S104	Presenting information		
S105	Advising and consulting		
S106	Promoting, selling and purchasing		
S107	Obtaining information verbally		
S108	Working with others		
S110	Collecting, storing, monitoring, and using information		
S111	Conducting studies, investigations and examinations		
S112	Documenting and recording information		
S113	Managing information		
S114	Processing information		
S115	Measuring physical properties		



S116	Calculating and estimating		
S117	Analysing and evaluating information and data		
S118	Monitoring, inspecting and testing		
S120	Managing people, activities, resources, and organisations		
S121	Developing objectives and strategies		
S122	Organising, planning and scheduling work and activities		
S123	Allocating and controlling resources		
S125	Performing administrative activities		
S129	Supervising people		



Annex 3: Skills Section of the ESCO Skills and Knowledge Classification to 3 Levels Showing Codes, Labels and Definitions

S0100	Handling and moving	Sorting, arranging, moving, transforming, and fabricating goods and materials by hand or using hand held tools and equipment. Tending plants and crops.
S0110	Sorting and packaging goods and materials	Sorting, packaging, separating or arranging materials, according to established patterns or procedures.
S0111	Sorting materials or products.	Arranging materials into predetermined categories or groups according to established patterns of procedures
S0112	Marking materials or objects for identification.	Marking or labelling objects or materials for identifiation by type or individually
S0113	Packaging objects.	Enclosing or protecting products for distribution or storage according to a coordinated system of preparing goods for transport, warehousing, logistics, sale, and use.
S0120	Moving and lifting	Performing physical activities to move, load, unload or store objects or to climb structures, by hand or with the aid of equipment
S0121	Loading and unloading goods and, materials	Loading, securing or unloading products, materials, or equipment for transportation, storage or further processing.
S0122	Moving or lifting materials, equipment, or supplies.	Moving or lifting goods, materials supplies or resources, by hand or with the aid of equipment, using actions such as lifting, pushing, carrying or shovelling.
S0123	Storing goods and materials	Placing goods and materials in storage
S0124	Climbing	Climbing equipment and structures
S0130	Transforming and blending materials	Transforming materials from one form to another by blending, heating, chemical reaction, smoothing, or cutting, by hand or using hand held tools and equipment
S0131	Preparing mixtures or solutions.	Mixing and blending various types of solid or liquid materials by hand or using hand held tools and equipment
S0132	Cutting materials.	Cutting various types of materials using hand held tools and equipment
S0133	Preparing industrial materials for processing or use.	Preparing various types of materials for further processing or for use, by employing techniques such as heating, skimming to remove impurities or immersing objects in cleaning or coating solutions
S0134	Shaping materials to create products	Altering the shape of various types of materials by hand or using hand tools
S0135	Smoothing surfaces of objects or equipment.	Creating smooth surfaces on various types of materials and employing techniques such as grinding, planing, sanding and polishing, using hand held tools
S0136	Preparing specimens or materials for testing.	
S0140	Tending plants and crops	Propagating, cultivating, pruning, caring for and harvesting plants and crops.
	Cultivating land.	Preparing land for agricultural or horticultural use



		Commission
S0142	Planting crops, trees, or other plants.	Propagating and planting trees, flowers and other plants for production of food crops and other products, enhancing the
S0143	Cultivating crops	environment or for scientific research Performing activities to grow and entimies the growth rate
30143	Cultivating crops,	Performing activities to grow and optimise the growth rate
	lawns, or gardens.	and/or quality of plants cultivated for food, industrial or ornamental purposes
S0144	Irrigating lawns, trees, or plants.	
S0145	Pruning, cutting and	Reducing the size, removing limbs, or cutting down trees,
	harvesting, trees crops	shrubs and other crops, by hand or with hand-held tools for
	and other plants	purposes such as improving appearance, promoting the
		growth of fruits, and harvesting
S0150	Assembling and	Fabricating, assembling or repairing products or work aids by
	fabricating products	hand, or using hand-held tools and equipment.
S0151	Assembling products	Assembling, fabricating or repairing products or work aids,
	or work aids	excluding decorative objects and medical or prosthetic
		devices, by hand or using hand-held tools and equipment
S0155	Fabricating medical	Fabricating, maintaining or repairing medical, orthotic or
	and prosthetic	prosthetic devices.
	devices.	
S0160	Making moulds, casts, models and patterns	
S0161	Making production	Constructing moulds for the manufacture of objects in various
	moulds and casts	materials, and making casts by filling moulds with liquid
		materials for solidification
S0162	Making patterns and	
	templates	
S0163	Making models	Constructing physical models of products
S0170	Using hand tools	Using tools that can be held in the hands, including power tools.
S0180	Positioning materials,	
	tools or equipment	
S0181	Positioning tools or	
	equipment.	
S0182	Positioning	
	workpieces or	
	materials on	
	equipment	
S0183	Positioning materials	
	or components for	
	assembly.	
S0200	Working with animals	Moving, feeding and caring for live animals.
S0210	Handling animals	Breeding, tending, moving, capturing or slaughtering live animals
S0211	Breeding and tending	Breeding, raising and tending non-aquatic livestock such as
	livestock	cattle, poultry, and honeybees,
S0212	Breeding and tending	Breeding, raising and harversting aquatic and aquaculture
	aquatic animals	stock such as fin fish and shellfish.
S0213	Moving and herding	Directing, controlling or restraining the movement of live
	animals	animals to move them into vehicles pens, feeding areas and



		other enclosed spaces, or to facilitate grooming, veterinary procedures or slaughter.
S0214	Hunting, trapping and slaughtering animals	Hunt or trap animal wildlife or birds, or slaughter captive animals, or purposes such as gaining food or animal products
		pest control or wildlife management.
S0220	Caring for animals	Providing care, training, therapy or veterinary treatment fo animals.
S0221	Feeding and grooming animals	Feeding and grooming domestic and captive animals of all types including aquatic.
S0222	Training animals	Training animals to facilitate their routine husbandry, for professional purposes or as companion animals, for treatment, and/or public demonstrations.
S0223	Providing therapy or veterinary treatment for animals	Diagnosing and treating illnesses in animals and providing veterinary services such as artificial insemination and implanting microchips
S0300	Constructing	1 5 1
S0310	Building and repairing structures	Forming, shaping and joining materials to form structures such as buildings, bridges, or underground mines according to specifications and plans.
S0311	Installing structural masonry materials.	Forming structures using masonry materials such as bricks, stone, blocks, and mortar
S0312	Installing metal structural components	Installing and assembling metal parts such as steel girders, frames and reinforcing rods
S0313	Installing wooden structural components	Installing, assembling and repairing structural timber such as beams and
S0314	Installing concrete components	Setting concrete forms and pouring concrete for construction of footings, pilings, pillars and walls for buildings, bridges and other structures
S0315	Installing roofing	
S0316	Joining parts using soldering, welding or brazing techniques	
S0317	Installing and assembling building fixtures	Installing, assembling or constructing building fixtures such as drywall, doors, windows and staircases
S0318	Installing and assembling rigging equipment	Installing and assembling rigging equipment such as cables, ropes, pulleys and winches to safely secure high sructures or lift heavy waits.
S0320	Installing interior or exterior Infrastructure	Installing, repairing and testing systems and their components in buildings and other structures such as trains and aircraft.
S0321	Installing heating, ventilation and air conditioning equipment.	
S0322	Installing plumbing or piping equipment or systems.	
S0323	Installing insulation materials	



Finishing interior or exterior of structures	Applying interior and exterior finishes to buildings and other structures.
Applying material to	
fill gaps in surfaces	
Appyling textured or	
masonry coatings	
Applying protective or	
decorative solutions	
or coatings	
Installing floor and	Installing various types of floor and wall coverings, including
	tiling, carpets, linoleum and parquet.
	Controlling, operating and monitoring vehicles, stationary
Vehicles and	and mobile machinery and precision instrumentation and
Specialised	equipment.
•	-4
	Controlling the operation of vehicles and of machinery
	whose mobility is an integral part of its function.
•	
· ·	Operating equipment for moving, excavating, smoothing or
•	shaping earth
	Shaking carti
	Operating mobile equipment specifically designed for
	agricultural or forestry purposes, such as cultivating land or
•	harvesting crops and trees.
· ·	
	Operating equipment for lifting and moving objects, such as
	cranes, hoists, cable cars and lifting trucks
• '	Driving heavy vehicles, such as trucks and buses, for the
	transportation of goods or people by road
	Controlling the movement of light vehicles such as
Vobiclos	motorcycles cars, taxis, vans and light trucks
vehicles	•
Operating rail vehicles	Controlling the movement of rail vehicles such as trains and trams
	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft,
Operating rail vehicles Operating watercraft	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels
Operating rail vehicles	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing
Operating rail vehicles Operating watercraft Operating aircraft	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining,	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal processing and	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal processing and	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal processing and finishing machinery	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal processing and finishing machinery Operating pumping	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
Operating rail vehicles Operating watercraft Operating aircraft Operating machinery for the extraction and processing of raw materials Operating mining, drilling and mineral processing machinery Operating metal processing and finishing machinery Operating pumping systems or	Controlling the movement of rail vehicles such as trains and trams Operating and controlling the movement of watercraft, including ships, boats and other vessels Controlling the movement of aircraft including fixed wing aircraft, helicopters and drones Operating and monitoring various types of mechanically-controlled or computer-controlled stationary machinery for the extraction or processing of raw materials Operating machinery for the extraction and processing of rocks and minerals, or for drilling and boring wells and
	Applying material to fill gaps in surfaces Applying textured or masonry coatings Applying protective or decorative solutions or coatings Installing floor and wall coverings. Operating Machinery, Vehicles and Specialised Equipment Operating mobile machinery and equipment Operating earthmoving equipment Operating agricultural or forestry equipment. Operating lifting or moving equipment. Driving heavy road vehicles. Operating light



	distribution	
	equipment.	
S0425	Operating	
	petroleuem, chemical	
	or water processing	
	systems or	
	equipment.	
S0426	Operating wood	
	processing and	
	papermaking	
	machinery	
S0427	Operating kilns,	Operating, monitoring and adjusting the controls of
	furnaces and drying	equipment for heating or drying materials and products at
	equipment	high temperatures, such as kilns or furnaces
S0428	Operating recycling equipment.	
S0430	Operating machinery	Operating and monitoring various types of mechanically-
	for the manufacture	controlled or computer-controlled stationary machinery for
	of products	the manufacture of goods
S0431	Operating painting or	
	coating equipment.	
S0432	Operating packaging	
	equipment.	
S0433	Operating machinery	
	for the manufacture	
	and treatment of	
	textile, fur and leather	
	products	
S0434	Operating food	
	processing	
	equipment.	
S0435	Operating mixing and	
	separating equipment.	
S0436	Operating print and	
	photographic	
	production	
	equipment.	
S0437	Operating metal,	
	plastic or rubber	
	forming equipment.	
S0438	Operating cutting,	
	grinding and	
60446	smoothing equipment	Controlling manifesters and discrete
S0440	Using precision	Controlling, monitoring, and adjusting precision
	instrumentation and	instrumentation and equipment for a wide range of
CO###	equipment	purposes.
S0441	Operating medical	Controlling, monitoring, and adjusting precision
60445	equipment	instrumentation and equipment used for medical purposes
S0442	Operating audio-visual	Controlling, monitoring, and adjusting precision
	equipment	instrumentation and equipment for recording and of sound,
		video and images, and for use in live performances or
		exhibitions



S0443	Operating scientific	Controlling, monitoring, and adjusting precision
	and laboratory	instrumentation and equipment for the conduct of scientific
	equipment	experiments and diagnostic tests.
S0444	Operating	Controlling, monitoring, and adjusting telecommunication,
	communications	radio transmission or broadcasting equipment
	equipment	
S0445	Operating precision	Controlling, monitoring, and adjusting precision
	industrial equipment	instrumentation and equipment for industrial production
S0500	Interacting with computers	Using computers and other digital tools to develop, install and maintain ICT software and infrastructure and to browse, search, filter, organise, store, retrieve, and analyse data, to collaborate and communicate with others, to create and edit new content.
S0510	Programming	Writing and submitting instructions, specifications and
	computer systems	programmes for computers
S0520	Implementing	Making use of tools and methods to protect and maximize
	security measures for	security of ICT devices and to secure private information and
	computers or	identity in digital spaces.
	information systems	
S0521	Protecting ICT devices	Making use of tools and methods to protect and maximize
		security of ICT devices and information by controlling access,
		such as by requiring passwords, digital signatures, and
		biometric identification, and by protecting systems through
		the use of software such as firewalls, antivirus, and spam
		filters.
S0522	Protecting online privacy and personal data	Estimating the results of an action or a series of actions.
S0530	Setting up computer systems, networks, or other information systems	Installing computer software, and configuring computer networks.
S0540	Resolving computer problems	Identifying technical problems with ICT systems and devices and performing actions which solve the problems.
S0550	Using digital tools	Using digital tools to browse, search, filter, organise, store, retrieve, and analyse data, information and digital content, to collaborate and communicate with others, and create and edit new content.
S0551	Browsing, searching	Articulating information needs, searching for data,
	and filtering digital	information and content in digital environments, accessing
	data	and navigating them. Creating and updating personal search
		strategies.
S0552	Managing and analysing digital data	Using digital tools to organise, store, retrieve, and analyse data, information and digital content.
S0553	Using digital tools for	Using ICT software and hardware to collaborate and
30333	collaboration, content	communicate with others, creating and editing new content
	creation and problem	(from word processing to images and video) and solving
	solving	conceptual, technical and practical problems.
S0554	Using digital tools to	Issuing commands to computer controlled machines and
	control machinery	equipment by despatching the appropriate data and input
		- It It and a selection O and albitable and a second in large



Installing,	Installing, maintaining and repairing stationary and mobile
Maintaining and	mechanical, electrical and electronic equipment, systems,
Repairing Equipment	components and devices.
and Machinery	
Installing, maintaining	Installing, maintaining and repairing stationary and mobile
and repairing	mechanical equipment, components and devices.
mechanical	
equipment	
Disassembling	Disassembling stationary and mobile mechanical equipment,
mechanical	components and devices
equipment	
Repairing and	Repairing, reassembling and installing stationary and mobile
installing mechanical	mechanical equipment, components and devices.
equipment	
Maintaining	Perform basic or general maintenance of mechanical
mechanical	equipment, components and devices to ensure continued or
equipment	optimal functioning
Installing, maintaining	Installing, setting-up, maintaining and repairing electrical
and repairing	and electronic equipment, and control systems, scientific
electrical, electronic	devices, instrumentation and precision equipment
and precision	
equipment	
Installing and	Installing, setting-up, and repairing electrical, electronic,
repairing electrical,	mechatronic and precision equipment, and control systems,
electronic and	scientific and medical devices, instrumentation and precision
precision equipment	equipment
Maintaining electrical,	Maintaining electrical and electronic and mechatronic
electronic and	equipment, control systems, scientific and medical devices,
precision equipment	instrumentation and precision equipment to ensure continued
	or optimal functioning
Assisting and Caring	or optimal functioning Providing assistance, nurturing, care, service and support to
Assisting and Caring for Others	· · · · · · · · · · · · · · · · · · ·
for Others	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws.
for Others Counselling and	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional
for Others	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing
for Others Counselling and nurturing	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional
for Others Counselling and	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing
for Others Counselling and nurturing Counselling others about personal, family	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand
Counselling and nurturing Counselling others about personal, family or social issues	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems. Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems. Assist others to gain access to social, legal or other services
Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to access services Providing health care	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems. Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals and orrganisations Treating injuries and health conditions through the provision
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to access services	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals and orrganisations
Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to access services Providing health care	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems. Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals and orrganisations Treating injuries and health conditions through the provision
for Others Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to access services Providing health care or medical	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems. Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals and orrganisations Treating injuries and health conditions through the provision
Counselling and nurturing Counselling others about personal, family or social issues Providing support to resolve problems Assisting others to access services Providing health care or medical treatments	Providing assistance, nurturing, care, service and support to other people, and ensuring compliance to rules, standards, guidelines or laws. Responding to clients' needs by interpreting their emotional and motivational states, and determining and providing appropriate support or interventions. Responding to clients' needs by interpreting their emotional and motivational states, and assisting them to understand their situation Providing appropriate support or interventions to others to assist them to resolve their personal, family or social problems Assist others to gain access to social, legal or other services and beneifts, including making referrals to other professionals and organisations Treating injuries and health conditions through the provision of health care and medical treatments to people.
	Maintaining and Repairing Equipment and Machinery Installing, maintaining and repairing mechanical equipment Disassembling mechanical equipment Repairing and installing mechanical equipment Maintaining mechanical equipment Installing, maintaining and repairing electrical, electronic and precision equipment Installing and repairing electrical, electronic and precision equipment Maintaining electrical, electronic and



		Commission
S0722	Prescribing and ordering medical tests, treatments or	Ordering medical tests such as blood tests or medical imaging, planning courses of treatment and prescribing medication, or medical and prosthetic devices.
S0723	devices Fitting assistive devices	Fitting assistive devices such as prostheses or othotics to patients or clients
S0730	Protecting and enforcing	Responding to public and personal safety and security needs and ensuring compliance to rules, standards, guidelines or laws.
S0731	Complying with health and safety procedures	Ensuring compliance to rules, standards, guidelines or laws relating to the health and safety of oneself, coworkers, employees and the public
S0732	Complying with environmental protection requirements	Ensuring compliance to regualtions, standards, guidelines or laws relating to the protection of the environment
S0733	Complying with general legislative and organisational guidelines	Ensuring compliance with rules, standards, guidelines or laws relating to matters other than health, safety and the environment
S0734	Verifying identities and documentation	Check an individuals' documentation, such as driver's licenses, official identification documents, travel documents and tickets, to ensure compliance with legal regulations, identify individuals, and assess their right to access services, areas or facilities
S0735	Maintaining and enforcing physical security	Ensuring safety and security of persons and property through physical actions
S0740	Providing information and support to the public and clients	Assisting the public by answering questions, making recommendations, and providing information or support in response to requests.
S0741	Providing information to members of the public and clients	Answering questions, making recommendations, and providing information or support in response to requests from clients, customers, guests or members of the public
S0742	Accompanying others	Accompanying, escorting or guiding other people or groups of people on trips, social events, outings or crossing roads
S0743	Assisting others with paperwork	
S0744	Providing general assistance to others	Welcoming and supporting clients, patrons, visitors and others by helping them to feel at ease, supporting special requirements, and assisting them with general activities such as finding seats, making reservations and using facilities
S0750	Preparing, cooking, serving	Providing food and beverage services.
S0751	Preparing and cooking food and beverages	
S0752	Serving food and beverages	



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S0760	Providing general personal care	Responding to the daily and occasional personal care needs of people
S0761	Assisting others with	Moving or assisting movement of persons with restricted
	mobility	mobility due to illness, accidents, disability, or medical
		procedures
S0762	Assisting others with	Assisting others with personal needs such as bathing, dressing
	personal needs	feeding, relaxation and comfort
S0763	Grooming or styling	Grooming, styling or removing hair, applying make-up and
	hair and providing	providing beauty treatments, to meet the appearance desired
	beauty treatments	by clients or required for the purposes such as theatrical
		performance.
S0800	Cleaning and waste	Cleaning tools, equipment, buildings, public spaces, textiles
	disposal	and clothing; handling and disposing of waste and hazardous
		materials
S0810	Cleaning	Cleaning buildings, work areas, equipment, machinery and vehicles
S0811	Cloaning tools	
20011	Cleaning tools, equipment,	Performing cleaning routines after tools, equipment, machinery and vehicles have been used and cleaning
	workpieces and	workpieces during or after fabrication
	vehicles	workpieces during or after fabrication
S0812	Cleaning interior and	Cleaning the interior spaces and furnishings and the exterior
	exterior of buildings	of buildings and similar structures
S0813	Cleaning outdoor	Cleaning outdoor public spaces such as streets or parks.
	spaces	G. Carres C. Parrier Character and C. Parrier
S0820	Washing and	Washing or cleaning clothing and other textile products by
	maintaining textiles	hand or by use of a washing or laundry machine, maintaining
	and clothing	textile items in good order.
S0830	Handling and	Collecting, storing and disposing of unwanted materials or
	disposing of waste	hazardous, according to established waste management
	and hazardous	procedures
	materials	
S0831	Handling and	Handling, collecting, storing and disposing of materials that
	disposing of	pose substantial threats to public or personal health or the
	hazardous materials	environment
S0832	Disposing of non-	Collecting and disposing of unwanted non-hazardous
	hazardous waste or	materials according to established waste management
	debris	procedures
S0900	debris Creative thinking and	procedures Developing solutions to problems, creating plans or
S0900	debris	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems,
S0900	debris Creative thinking and	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an
	debris Creative thinking and expression	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience.
	debris Creative thinking and	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical,
	debris Creative thinking and expression	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in
S0910	debris Creative thinking and expression Solving problems	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts.
	debris Creative thinking and expression Solving problems Developing solutions	procedures Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual
S0910	Creative thinking and expression Solving problems Developing solutions to operational	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a
S0910 S0911	Creative thinking and expression Solving problems Developing solutions to operational problems	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts.
S0910	Creative thinking and expression Solving problems Developing solutions to operational problems Implementing	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Implementing new procedures or processes to resolve
S0910 S0911	Creative thinking and expression Solving problems Developing solutions to operational problems Implementing procedures or	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Implementing new procedures or processes to resolve practical, operational or conceptual problems which
S0910 S0911 S0912	Creative thinking and expression Solving problems Developing solutions to operational problems Implementing procedures or processes	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Implementing new procedures or processes to resolve practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts.
S0910 S0911	Creative thinking and expression Solving problems Developing solutions to operational problems Implementing procedures or	Developing solutions to problems, creating plans or specifications for the design of objects and systems, composing text or music, performing to entertain an audience. Developing and implementing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Developing solutions to practical, operational or conceptual problems problems which arise in the execution of work in a wide range of contexts. Implementing new procedures or processes to resolve practical, operational or conceptual problems which



S1010	collaboration and social interaction Negotiating and	other people and imparting information, knowledge and skills, using written, oral, visual or electronic means. Exchanging ideas while analyzing issues and interests at
S0953 S1000	Conducting amusement or gaming activities Communication,	Communicating, collaborating, liaising, and negotiating with
	performances	performance) to entertain a live audience, or as part of a recording session
50952	Presenting arts or entertainment	Performing, practising or rehearsing music, dance, drama or other other types of performance (excluding athletic
50951	Perform athletic activities	Performing and practising athletic activities for fitness, competition, or artistic purposes.
S0950	Performing and entertaining	Performing to entertain an audience.
50943	Functional writing	Writing original text of a primarily functional, technical or academic nature; editing text
S0942	Artistic and creative writing	Writing original text of an artistic or creative nature
S0941	Composing music	regard to format, style and content.
S0940	Writing and composing	Writing text or composing music, creating original work with regard to format, style and content.
	designs or performances	
S0933	or promotional materials. Creating artistic	
S0932	decorations Developing instructive	
S0931	materials Creating visual displays and	Creating and arranging visual displays, exhibits and decorations.
S0930	Creating artistic, visual or instructive	
S0925	Designing industrial materials, systems or products	
S0924	Designing structures or facilities.	
50923	Developing recipes or menus.	
S0922	applications. Designing electrical or electronic systems or equipment.	
50921	Designing computer or information systems or	Creating a plan or specification for the design of information systems, databases and computer networks, systems and applications,
		aesthetic and/or functional design concepts.



		Commission
		agreement, or making decisions to resolve disputes or impose justice
S1011	Negotiating contracts	Negotiating contracts and agreements with others concerning
	and agreements	matters such as prices, terms of service, employment
	A 4 1: .: 1	conditions, access to land and facilities
S1012	Mediating and	Working with two or more separate people or groups involved
	resolving disputes	in a disagreement or dispute to bring about an agreement,
		settlement or compromise, and in some cases making decisions to resolve disputes or legal cases
S1013	Discussing logal	Discussing legal matters with clients, disputants, or legal
31013	Discussing legal matters	professionals or staff.
S1014	Responding to	Handling and responding to complaints from clients or staff
01014	complaints	rianding and responding to complaints from electes of start
S1020	Liaising and	Developing alliances, contacts or partnerships, and
	networking	exchanging information with others.
S1021	Communicating with	Communicating and liaising with colleagues, clients and other
	others about	agencies on operationsal matters, problems and activities
	operational plans or	
	activities.	
S1022	Coordinating activities	Cooperating and liaising with outside agencies, clients and
	with clients, agencies,	other organizational units to adapt the timing and nature of
	or organizations.	the activities of all concerned are in harmony
S1023	Developing	
	professional	
	relationships or	
	networks.	
S1024	Advocating for	
	individual or	
	community needs.	
S1030	Teaching and training	Facilitating the acquisition of new knowledge and skills.
		Leading and guiding individuals and groups through a
		process in which they are taught the necessary skills and
S1031	Toaching acadomic or	knowledge for a particular job or set of jobs.
31031	Teaching academic or	
S1032	vocational subjects. Teaching safety	
31032		
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	procedures or	
\$1033	procedures or standards to others.	Training employees students or clients on operational
S1033	procedures or standards to others. Training others on	Training employees, students or clients on operational procedures in the work place or on the use of equipment or
S1033	procedures or standards to others. Training others on operational or work	procedures in the work place or on the use of equipment or
	procedures or standards to others. Training others on operational or work procedures.	procedures in the work place or on the use of equipment or products
	procedures or standards to others. Training others on operational or work procedures. Training others on	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or
	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical	procedures in the work place or on the use of equipment or products
S1034	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics.	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness
S1034	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics. Coaching others and	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness Actively helping individuals or groups to improve their
S1034	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics.	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness Actively helping individuals or groups to improve their strengths, performance, learning skills and confidence and to
S1034 S1035	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics. Coaching others and	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness
S1034 S1035	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics. Coaching others and teaching life skills	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness Actively helping individuals or groups to improve their strengths, performance, learning skills and confidence and to optimise specific methods, skills or abilities
\$1033 \$1034 \$1035 \$1040 \$1041	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics. Coaching others and teaching life skills Presenting	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness Actively helping individuals or groups to improve their strengths, performance, learning skills and confidence and to optimise specific methods, skills or abilities Presenting oral or visual material to an audience in order to
S1034 S1035 S1040	procedures or standards to others. Training others on operational or work procedures. Training others on health or medical topics. Coaching others and teaching life skills Presenting information	procedures in the work place or on the use of equipment or products Training patients, health providers, or carers on health or hygiene practices, medical procedures or physcial fitness Actively helping individuals or groups to improve their strengths, performance, learning skills and confidence and to optimise specific methods, skills or abilities Presenting oral or visual material to an audience in order to provide or interpret information



Presenting research or technical information.	Presenting information of a technical or academic nature to a audience, including presenting the results of research
Presenting in legal	Testifying, presenting evidence or representing clients during legal proceedings
	iegai proceedings
Advising and	Providing guidance and advice to enable decision-making about tasks, situations, and processes.
	Explaining and and providing advice to others on legal
regulatory or	matters, regulations, policies or procedures
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•	Explaining financial information and providing financial advice
Advising on products and services	Advising others on products or services explaining technical details
Providing medical and	Explaining medical and healthcare information to patients or
healthcare	family members and/or advising them on medical, health or
information and	wellness issues.
advice	
Advising on	Providing information and advice on environemental
environmental issues	protection and sutainability
Advising others on the	
design or use of	
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<u>.</u>	Using communication strategies or techniques to encourage acceptance of products, services, or ideas.
	acceptance of products, services, or ideas.
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services.	Asking questions and listening to others to obtain
services. Obtaining	Asking questions and listening to others to obtain information
services. Obtaining information verbally	information
services. Obtaining	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or
services. Obtaining information verbally Interviewing	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or determine suitability of individuals for jobs, roles or tasks
services. Obtaining information verbally Interviewing Conferring with others	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or determine suitability of individuals for jobs, roles or tasks Engaging in discussions in order to identify expectations,
services. Obtaining information verbally Interviewing	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or determine suitability of individuals for jobs, roles or tasks Engaging in discussions in order to identify expectations, requirements, desires, needs and problems of clients, co-
services. Obtaining information verbally Interviewing Conferring with others to identify needs	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or determine suitability of individuals for jobs, roles or tasks Engaging in discussions in order to identify expectations, requirements, desires, needs and problems of clients, coworkers, students and others
services. Obtaining information verbally Interviewing Conferring with others	information Interacting verbally in a formal way, usually using structured questionining, to collect information, determine opinions, or determine suitability of individuals for jobs, roles or tasks Engaging in discussions in order to identify expectations, requirements, desires, needs and problems of clients, co-
	technical information. Presenting information in legal proceedings. Advising and consulting Advising on legal, regulatory or procedural matters. Providing financial advice and information Advising on products and services Providing medical and healthcare information and advice Advising on environmental issues Advising others on the



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		appropriate questions, without interrupting at inappropriate times
S1080	Working with others	Working with other people, understanding and respecting the roles and competencies of others
S1081	Working in teams	Working confidently within a group with each doing their part in the service of the whole. Understanding and respecting the roles and competencies of other team members.
S1082	Giving constructive feedback	Providing founded feedback on the perrformance of subordiantes, co-workers and students through both criticism and praise in a respectful, clear, and consistent manner. Highlighting achievements as well as mistakes and set up methods of formative assessment to evaluate work.
S1083	Accepting direction and constructive criticism	React to valid and well-reasoned opinions and directions about one's work in a positive manner.
S1084	Issuing directions and instructions	Giving instructions to co-workers, subordinates or students or members of the public by employing various communication techniques. Adjusting communication style to the target audience in order to convey instructions as intended.
S1100	Collecting, storing, monitoring, and using information	Conducting studies, investigations and tests; maintaining records; managing, evaluating, processing, analysing and monitoring information and projecting outcomes.
S1110	Conducting studies, investigations and examinations	Conducting studies, investigations, and examinations to increase knowledge and understanding, diagnose problems or identify needs and requirements.
S1111	Conducting investigations	Conducting studies, investigations, and surveys to increase knowledge and understanding.
S1112	Diagnosing health conditions	Diagnosing physical and mental illnesses, injuries and medical conditions in humans and animals
S1113	Interpreting technical documentation and diagrams	Reading and interpreting documentation such as blueprints, electrical wiring diagrams, archtictural plans
S1120	Documenting and recording information	Maintaining records of information, transactions and activities in digital, paper or other forms.
S1121	Preparing financial documents, records, reports, or budgets.	Preparing and maintaining records and standardized reports on transactions, sales, financial information and budgets
S1122	Recording information about legal matters.	Recording information and preparing standardized documentation and reports on legal matters
S1123	Preparing documentation for contracts, applications, or permits.	
S1124	Recording information about environmental conditions.	
S1125	Recording images with photographic or audiovisual equipment.	



S1126	Maintaining or	Maintaining health and medical records, and preparing
	preparing medical	standardized reports on health status, medical conditions, or
	documentation	mecdical test results
S1127	Maintaining	Keeping records required for operational purposes such as
	operational records	those related to staff, clients, production and stock
	and inventories	inventories.
S1128	Documenting	
	technical designs,	
	procedures, problems	
	or activities.	
S1130	Managing	Setting up and using manual or electronic systems for storing
	information	, selecting, organizing, retrieving, distributing and
		safeguarding information.
S1140	Processing	Inputting, recording, transcribing and updating data using
	information	electronic or manual information systems.
S1141	Gathering information	
	from physical or	
	electronic sources.	
S1142	Entering and	Entering and transforming information in electronic or other
TE	transforming	information systems
	information	mormation systems
S1150	Measuring physical	Measuring the dimensions, weight, density and other
31130	properties	physical properties of objects, materials and spaces.
S1151	Measuring dimensions	Measuring the dimensions, density and other physical
31131	and related properties	properties of objects, materials and spaces.
S1152	Weighing	Measuring the weight of objects.
31132	vveigiiiiig	ivieasuring the weight of objects.
S1153	Taking physical	
	measurements of	
	patients or clients.	
S1160	Calculating and	Performing mathematical calculations and estimating the
	estimating	results of an action or a series of actions.
S1161	Performing	Performing mathematical calculations on financial, spatial,
	calculations	scientific or other data with or withoug the used of electronic
		tools
S1162	Determining values or	Determining or estimating values or prices of goods or
	prices of goods or	services.
	services.	
S1163	Estimating resource	
	needs of projects or	
	operations.	
S1170	Analysing and	Examining data or facts to determine appropriate actions or
	evaluating	recommendations; comparing and critically evaluating the
	information and data	credibility and reliability of sources of data; making and
		defending judgements based on internal evidence and
		external criteria.
S1171	Assessing the	
	characteristics of land	
	or real estate	
S1172	Analysing and	
-	evaluating scientific	
	and medical data and	
	information	



S1173	Analysing financial	
	and economic data	
S1174	Analysing and	Analysing and evaluating information and data on production
	evaluating business	and business operations
	operations and	
C117F	production	Figure and analysing information on the newforman of
S1175	Evaluating systems,	Evaluating and analysing information on the performance of systems, processes, practices, programmes equipment or
	programmes, equipment and	products
	products	products
S1176	Evaluating the	Evaluating the performance and capabilities of employees,
	performance, needs	students, clients or others based on objective criteria and
	and capabilities of	information on their activities, behaviour or social
	individuals or groups	environment
S1180	Monitoring,	Examining and investigating problems, sites or objects to
	inspecting and testing	assess fucntioning or compliance with standards, laws or
		regulations
S1181	Monitoring and	
	testing equipment,	
	systems and products	
S1182	Monitoring business	Monitoring the operations of a business or organisation to
	operations	ensure adequate performancce and compliance with
		regulatory requirements
S1183	Monitoring financial	
	and economic	
C4404	resources and activity	Manifestina in a stimulation the safety and a suite of small and
S1184	Monitoring safety or	Monitoring, inspecting the safety or security of work areas,
S1185	security Monitoring	facilities, or properties.
31103	environmental	
	conditions	
S1186	Monitoring health	Monitoring health conditions of humans or animals.
	conditions	
S1187	Monitoring	Monitoring and keeping knowledge up-to-date concerning
	developments in area	new research, mothodologies, regulations, policies
	of expertise	technological developments and other significant changes
		relevant to a particular field of specialisation.
S1200	Managing people,	Developing objectives and strategies, organising work
	activities, resources,	activities, allocating and controlling resources and leading,
	and organisations	motivating, recruiting and supervising people and teams.
S1210	Developing objectives	Envisioning a future state and developing strategies, goals,
C1211	and strategies	objectives and action plans to achieve it.
S1211	Identifying	Identifying business or organizational opportunities.
S1212	opportunities Developing financial	
21717	Developing financial, business or marketing	
	plans	
S1213	Developing	Developing organisational and operational methods, policies,
31213	operational policies	procedures or standards
	and procedures	procedures of standards
	and procedures	



	Wantenance committee	Commission
S1214	Developing research plans	Developing plans and programmes for the conduct of research and investigations to extend human knowledge or develop new products
S1215	Developing health programmes	Developing plans for the promotion and protection of public and community health and the provision of health services
S1216	Developing educational programmes	Developing educational programs, plans, or procedures.
S1217	Developing contingency and emergency response plans	
S1220	Organising, planning and scheduling work and activities	Directing activities and tasks, establishing schedules and co- ordinating the activities of groups and individuals to complete objectives on time and within budget.
S1221	Directing operational activities	Directing and coordinating operational activities, projects and tasks
S1222	Planning and scheduling events and activities	
S1230	Allocating and controlling resources	Determining the distribution and availability of people, assets, materials or capital to accomplish organizational goals and putting in place financial and administrative controls.
S1231	Managing budgets or finances	Determining the distribution and availability financial assets and putting in place financial and administrative controls.
S1232	Managing human resources	Determining the distribution and availability of people to accomplish organizational goals
S1233	Allocating and controlling physical resources	Determining the distribution and availability of physical assets such as tools and equipment
S1250	Performing administrative activities	Performing administrative tasks such as typing up reports, ordering supplies, and maintaining mail correspondence, and ensuring administrative systems, processes and databases are efficient.
S1251	Administering human resources	Performing administrative and clerical tasks concerned with human resource administration
S1252	Executing financial transactions	Executing financial or commercial transactions such as issuing invoices for sales or issuing purchase orders
S1253	Performing general clerical and administrative tasks	Performing general clerical and administrative tasks not involving admnistration of human resources, execution of financial transactions, or processing and transforming information or data
S1260	Leading and motivating	Reinforcing an organization's vision, inspiring and enthusing others to achieve positive outcomes. The focus of this group is on skills in motivating and inspiring others, rather than on managing and supervisinga team
S1270	Building and developing teams	Encouraging team members and building a relationship of mutual trust, respect and cooperation; stimulating teambuilding activities;
S1280	Recruiting and hiring	Acquiring the right talent to achieve the organization's



S1290	Supervising people	Assigining responsibilities to others and directing and monitoring their performance.
S1291	Managing a team or group	Managing, leading or supervising the activities a team or group of workers or students
S1292	Assigning work to others	Assigning specific tasks to workers or students
S1293	Monitoring the performance of individuals	Monitoring the behaviour or performance of workers or students to ensure that work is completed satsfactorily and to evaluate their performance and capabilities