

中非职业教育联盟文件

中非职教函【2022】9号

关于开展第二批“坦桑尼亚国家职业标准开发项目”

立项建设单位遴选工作的通知

各有关单位：

为了健全和完善坦桑尼亚国家相关行业职业标准和职业教育体系，坦桑尼亚国家职业教育委员会委托创造太阳乌干达石油学院引进中国职业教育资源，协商一致决定实施“坦桑尼亚国家职业标准开发项目”（以下简称“项目”）。项目针对坦桑尼亚国家重点行业职业技能岗位，优选中国同等数量的职业标准，经本土化修订后，按照坦桑尼亚国家相关流程注册认证，与配套专业教学标准一并纳入坦桑尼亚国家职业教育体系，指导坦桑尼亚国家职业院校开展人才培养工作。第一批项目于2022年6月15日正式启动实施，目前已探索出一套较为完善的工作机制，形成了一系列标准化的指导文件，这也是中国首次大规模整装批量式直接为一个非洲国家开发和修订职业标准，对中国职业教育的国际化发展有极其重要的里程碑意义！

应坦桑尼亚国家职业教育委员会请求，为了加快职业标准的制定工作，将第二批和第三批合并实施。经商定，决定面向全国职业院校开展立项建设单位遴选工作，现通知如下。

一、组织单位

（一）主办单位

中非职业教育联盟

中非（重庆）职业教育联盟

（二）支持单位

中智科技集团有限公司

“一带一路”产教协同联盟

全国检验检测认证职业教育集团

陕西省职业技术教育学会国际交流与合作工作委员会

（三）实施单位

北京创造太阳教育科技有限公司

二、项目内容

中国职业院校根据自身专业优势，选择 1-3 个等级的职业标准，组建工作专班，结合坦桑尼亚实际需求，与坦桑尼亚国家职业教育委员会专家组进行多轮次商讨，形成符合中国标准，满足坦桑尼亚需求的职业标准，并配套提供与其相关的专业教学标准，由坦桑尼亚国家职业教育委员会注册认证纳入坦桑尼亚国家职业教育体系，在坦桑尼亚国家职业院校推广使用，指导和规范其职业教育人才培养工作。

三、项目职业标准清单

第二批坦桑尼亚国家职业标准拟开发名单如下。

序号	职业标准名称	等级
1	Aircraft Maintenance Engineering Technician (Airframe and Powerplant) 飞机维修工程技术人员（机身和动力装置）	NTA 4
2	Avionics Maintenance Engineering Technician 航空电子维修工程技术人员	NTA 4-5
3	Leather Product Technician 皮革制品技术人员	NTA 4,6
4	Leather Processing Technician	NTA 4-6

序号	职业标准名称	等级
	皮革加工技术员	
5	Livestock Veterinary Technician 畜牧兽医技术员	NTA 4-6
6	Livestock Veterinary Engineer 畜牧兽医技术工程师	NTA 7-8
7	Animal Breeding Technician 动物养殖技术员	NTA 4-6
8	Animal Breeding Engineer 动物养殖工程师	NTA 7-8
9	Brewing Technician 酿酒工艺技术员	NTA 4-6
10	Brewing Engineer 酿酒工艺工程师	NTA 7-8
11	Aquaculture Technician 水产养殖技术员	NTA 4-6
12	Flower Production and Processing Technician 花卉生产与加工技术员	NTA 4-6
13	Tea Production and Processing Technician 茶叶生产与加工技术员	NTA 4-6
14	Crop Planting Technician 农作物种植技术员	NTA 4-6
15	Crop Planting Engineer 农作物种植工程师	NTA 7-8
16	Herbal Medicine Planting Technician 草药种植技术员	NTA 4-6
17	Fertilizer Production Technician 肥料生产技术员	NTA 4-6
18	Postharvest Technician 采后技术员	NTA 4-6
19	Wood Processing Technician 木材加工技术员	NTA 4-6
20	Textile Technician 纺织技术员	NTA 4-6
21	Textile Printing and Dyeing Technician 纺织品印染技术员	NTA 4-6
22	Garment Design Technician 服装设计技术员	NTA 4-6

序号	职业标准名称	等级
23	Garment Production Technician 服装生产技术员	NTA 4-6
24	Jewelry Processing Technician 珠宝加工技术员	NTA 4-6
25	Food Inspection and Testing Technician 食品检验检测技术员	NTA 4-6
26	Culinary Technician 烹饪技术员	NTA 4-6
27	Culinary Engineer 烹饪技术工程师	NTA 7-8
28	Hotel Catering Management and Service Technician 酒店餐饮管理服务技术员	NTA 4-6
29	Tourism Management Service Technician 旅游管理服务技术员	NTA 4-6
30	Beauty Salon Technician 美容美发技术员	NTA 4-6
31	Infant and Toddler Service Technician 婴幼儿托育师	NTA 4-6
32	Nursing 护理员	NTA 4-6
33	Public Health Safety Inspection and Quarantine Technician 公共卫生安全检验检疫技术员	NTA 4-6
34	Public Health Technician 公共卫生技术员	NTA 4-6
35	Pharmaceutical Preparation Technician 药物制剂技术员	NTA 4-6
36	Pharmaceutical Preparation Engineer 药物制剂工程师	NTA 7-8
37	Air Transportation Service Technician 航空运输服务技术员	NTA 4-6
38	Civil Aviation Ground Equipment Maintenance Technician 民用航空地面设备维修技术员	NTA 4-6
39	Civil Aviation Transportation Equipment Operation Technician 民用航空运输设备操作技术员	NTA 4-6

序号	职业标准名称	等级
40	Daily-use Chemical Production Technician 日用化学品生产技术员	NTA 4-6
41	Oil, Gas, Geothermal Exploration Technician 石油、天然气、地热勘探技术员	NTA 4-6
42	Petrochemical Product Technician 石油化工产品技术员	NTA 4-6
43	Oil and Gas Storage and Transportation Technician 石油天然气储运技术员	NTA 4-6
44	Oil & Gas Geothermal Production Technician 石油天然气地热产品技术员	NTA 4-6
45	Oil and Gas Geothermal Drilling Technician 石油天然气地热钻井技术员	NTA 4-6
46	Chemical Testing Technician 化学检验技术员	NTA 4-6
47	Environmental Monitoring Technician 环境监测技术员	NTA 4-6
48	Weather Forecast Technician 气象预报技术员	NTA 4-6
49	Metrology Technician 计量技术员	NTA 4-6
50	Metrology Engineer 计量工程师	NTA 7-8
51	Land Survey and Mapping Technician 测绘技术员	NTA 4-6
52	Furniture Production Technician 家具生产技术员	NTA 4-6
53	Architectural Engineering Technician 建筑工程技术员	NTA 4-6
54	Architectural Material Production and Processing Technician 建筑材料生产加工技术员	NTA 4-6
55	Architectural Interior Design Technician 建筑室内设计技术员	NTA 4-6
56	Water Conservancy and Hydropower Engineering Technician 水利水电工程技术员	NTA 4-6
57	Water Conservancy and Hydropower Engineering Engineer	NTA 7-8

序号	职业标准名称	等级
	水利水电工程工程师	
58	Renewable Energy Engineering Technician (Hydro) 新能源工程技术人员（水力）	NTA 4-6
59	Renewable Energy Engineer (Hydro) 新能源工程师（水力）	NTA 7-8
60	Renewable Energy Engineering Technician (Solar) 新能源工程技术人员（太阳能）	NTA 4-6
61	Renewable Energy Engineer (Solar) 新能源工程师（太阳能）	NTA 7-8
62	New-Energy Vehicle Technician 新能源汽车技术人员	NTA 4-6
63	New-Energy Vehicle Engineer 新能源汽车工程师	NTA 7-8
64	Railway Locomotive Operation and Maintenance Technician 铁道机车操作与维护技术人员	NTA 4-6
65	Railway Locomotive Operation and Maintenance Engineer 铁道机车操作与维护工程师	NTA 7-8
66	Lifting, Loading and Unloading Machinery Operation Technician 起重装卸机械操作技术人员	NTA 4-6
67	Welding Technician 焊接技术人员	NTA 4-6
68	Welding Engineer 焊接工程师	NTA 7-8
69	Mechanical Equipment Maintenance Technician 机械设备维修技术人员	NTA 4-6
70	Mechanical Equipment Maintenance Engineer 机械设备维修工程师	NTA 7-8
71	Mechanical Equipment Installation Technician 机械设备安装工	NTA 4-6
72	Mechatronics Technician 机电一体化技术人员	NTA 4-6
73	Mechatronics Engineer 机电一体化工程师	NTA 7-8
74	Electrical Equipment Installation and Maintenance Technician	NTA 4-6

序号	职业标准名称	等级
	电力设备安装与维修技术员	
75	Electronic Equipment Assembly and Repair Technician 电子设备装配与维修技术员	NTA 4-6
76	Software Engineering Technician 软件工程技术员	NTA 4-6
77	Software Engineer 软件工程工程师	NTA 7-8
78	Big-Data Technician 大数据技术员	NTA 4-6
79	Big-Data Engineer 大数据技术工程师	NTA 7-8
80	Artificial Intelligence Technician 人工智能技术员	NTA 4-6
81	Artificial Intelligence Engineer 人工智能技术工程师	NTA 7-8
82	Mobile Application Development Technician 移动应用开发技术员	NTA 4-6
83	Mobile Application Development Engineer 移动应用开发工程师	NTA 7-8
84	Cyber Security Technician 网络安全技术员	NTA 4-6
85	Cyber Security Engineer 网络安全技术工程师	NTA 7-8
86	Webcast Technician 网络直播技术员	NTA 4-6
87	Digital Media Technician 数字媒体技术员	NTA 4-6
88	Film and Television Production Technician 影视制作技术员	NTA 4-6
89	Cross-border E-Commerce Technician 跨境电子商务技术员	NTA 4-6
90	Cross-border E-Commerce Engineer 跨境电子商务工程师	NTA 7-8
91	Accounting 会计	NTA 4-6
92	Metal Mining Engineering Technician 金属矿产开采技术员	NTA 4-6

序号	职业标准名称	等级
93	Coal Mining Engineering Technician 煤矿开采技术员	NTA 4-6
备注	NTA - National Technical Award NTA 8 - Bachelor NTA 7 - Higher Diploma NTA 6 - Ordinary Diploma NTA 5 - Technician Certificate NTA 4 - Basic Certificate NTA 4-6 等同于中国普通高等职业教育三年学历 NTA 7-8 等同于中国职业教育本科	

四、申报注意事项

1. 全国中等职业院校、高等职业院校可单独申报，研究机构、企业等可联合职业院校共同申报。

2. 为了将项目做精做实，更好地体现中国职业教育质量标准内涵，支持各单位联合申报，明确分工。

3. 申报结束后，联盟秘书处择机组织申报单位进行遴选答辩，原则上要求申报单位校级领导参与答辩。最终遴选出同一标准 4-8 级的统筹单位、每个等级职业标准的牵头单位和参与单位。

4. 各单位在申报时，可根据院校优势和实际情况，提出有意向输出的其他职业标准，联盟秘书处会和坦桑尼亚国家职业教育委员会协商，适当增加个别职业标准。

五、各方分工

（一）坦桑尼亚国家职业教育委员会

1. 针对每一个标准组建坦方专家工作组，与中方院校对接；

2. 提供职业标准开发工作所需的行业发展报告等参考

材料；

3. 按照规定流程注册经审核通过的中方院校职业标准和专业教学标准为坦桑尼亚国家标准，并出具坦桑尼亚国家注册认证证书和推广使用证明。

（二）中国职业院校

1. 结合本校专业优势，向联盟秘书处提交申报材料，经专家组审核通过获批立项建设后，组建专项工作组；

2. 结合坦方实际需求，与坦方进行线上沟通，开发职业标准，并制定配套专业教学标准；

3. 配合联盟秘书处和坦方，完成标准的注册和认证工作。

（三）联盟秘书处

1. 组建项目中方专家工作组，负责遴选评审、过程性指导、结果材料审核、培训等工作；

2. 制定项目实施推进计划，联络、对接中方和坦方工作要求；

3. 提供会议组织、翻译、传译等服务；

4. 按照流程，配合坦方完成中方输出标准和专业教学标准的注册认证和推广工作。

六、费用

项目费用主要包括会议组织、翻译（传译）、标准在坦桑尼亚国家注册和认证、专家咨询审核、培训等，实际费用根据每个中国职业院校申报的具体内容进行确定。

七、项目实施周期

2022 年 9 月至 2023 年 4 月

八、申报方式

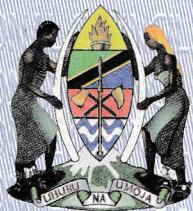
（一）符合条件、有意愿的中国职业院校请在 2022 年 9 月 20 日前提交申请表电子版（格式：单位名称+申报专业等级）至 lihaoyang@brpetro.com，申请表见附件 2。每校可申报不同等级标准数量原则上不超过 3 个。

（二）有任何疑问请随时联系：中非职业教育联盟秘书处马老师 15908945081 许老师 18561813603

附件 1：第二批“坦桑尼亚国家职业标准开发项目”坦桑尼亚国家职业教育委员会授权函

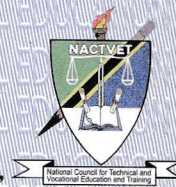
附件 2：第二批“坦桑尼亚国家职业标准开发项目”立项建设单位遴选申请表





THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY
THE NATIONAL COUNCIL FOR TECHNICAL
AND VOCATIONAL EDUCATION AND TRAINING

SN. 100052014



"Striving for World-Class Excellence in Technical and Vocational Education and Training"

Our Ref : AB. 81/211/01/115

Date: 10th August, 2022

Your Ref:

Principal,
Sunmaker Training Institute
Plot 1A-10/12, Close Bugolobi,
Kampala, Uganda.

**Re: DEVELOPMENT OF SECOND BATCH OF OCCUPATIONAL STANDARDS TO
SUPPORT TVET DEVELOPMENT IN TANZANIA**

Reference is made to your letter with titled Developing Second Batch of Occupational Standards to support the TVET development in Tanzania dated 22nd June, 2022.

2. We are glad that the Review of Occupational Standards Development (1st Batch) Project has been launched successfully on 15th June 2022. With the great efforts of Chinese vocational institutes as well as experts from China and Tanzania, the project is progressing with some remarkable milestones. Now we are looking forward to receiving your works so that we can discuss and finalize the Occupational Standards.

3. We are also happy to inform you that the areas which have been proposed for the second batch are of interest and aligned to National Development Strategy and NACTVET Plans. However, the Council has not allocated financial resources for the development of these proposed second batch Occupational Standards. Hence, the Council is requesting your good office to finance the development of these proposed Second Batch Occupational Standards to support TVET development in Tanzania.

4. Therefore, the Council is hereby request you to proceed with the development of occupational standards in the following areas but not limited to:

- (i) Aircraft Maintenance Engineering Technician (Airframe and Powerplant)
– Level: NTA 4
- (ii) Avionics Maintenance Engineering Technician – Level: NTA 4-5
- (iii) Leather Product Technician – Level: NTA 4,6
- (iv) Leather Processing Technician – Level: NTA 4-6
- (v) Livestock Veterinary Technician – Level: NTA 4-6

- (vi) Livestock Veterinary Engineer – Level: NTA 7-8
- (vii) Animal Breeding Technician – Level: NTA 4-6
- (viii) Animal Breeding Engineer – Level: NTA 7-8
- (ix) Brewing Technician – Level: NTA 4-6
- (x) Brewing Engineer – Level: NTA 7-8
- (xi) Aquaculture Technician – Level: NTA 4-6
- (xii) Flower Production and Processing Technician – Level: NTA 4-6
- (xiii) Tea Production and Processing Technician – Level: NTA 4-6
- (xiv) Crop Planting Technician – Level: NTA 4-6
- (xv) Crop Planting Engineer – Level: NTA 7-8
- (xvi) Herbal Medicine Planting Technician – Level: NTA 4-6
- (xvii) Fertilizer Production Technician – Level: NTA 4-6
- (xviii) Postharvest Technician – Level: NTA 4-6
- (xix) Wood Processing Technician – Level: NTA 4-6
- (xx) Textile Technician – Level: NTA 4-6
- (xxi) Textile Printing and Dyeing Technician – Level: NTA 4-6
- (xxii) Garment Design Technician – Level: NTA 4-6
- (xxiii) Garment Production Technician – Level: NTA 4-6
- (xxiv) Jewelry Processing Technician – Level: NTA 4-6
- (xxv) Food Inspection and Testing Technician – Level: NTA 4-6
- (xxvi) Culinary Technician – Level: NTA 4-6
- (xxvii) Culinary Engineer – Level: NTA 7-8
- (xxviii) Hotel Catering Management and Service Technician – Level: NTA 4-6
- (xxix) Tourism Management Service Technician – Level: NTA 4-6
- (xxx) Beauty Salon Technician – Level: NTA 4-6
- (xxxi) Infant and Toddler Service Technician – Level: NTA 4-6
- (xxxii) Nursing – Level: NTA 4-6
- (xxxiii) Public Health Safety Inspection and Quarantine Technician – Level: NTA 4-6
- (xxxiv) Public Health Technician – Level: NTA 4-6
- (xxxv) Pharmaceutical Preparation Technician – Level: NTA 4-6
- (xxxvi) Pharmaceutical Preparation Engineer – Level: NTA 7-8
- (xxxvii) Air Transportation Service Technician – Level: NTA 4-6
- (xxxviii) Civil Aviation Ground Equipment Maintenance Technician – Level: NTA 4-6
- (xxxix) Civil Aviation Transportation Equipment Operation Technician – Level: NTA 4-6
- (xl) Daily-use Chemical Production Technician – Level: NTA 4-6
- (xli) Oil, Gas, Geothermal Exploration Technician – Level: NTA 4-6

- (xlii) Petrochemical Product Technician – Level: NTA 4-6
- (xliii) Oil and Gas Storage and Transportation Technician – Level: NTA 4-6
- (xliv) Oil & Gas Geothermal Production Technician – Level: NTA 4-6
- (xlv) Oil and Gas Geothermal Drilling Technician – Level: NTA 4-6
- (xlvi) Chemical Testing Technician – Level: NTA 4-6
- (xlvii) Environmental Monitoring Technician – Level: NTA 4-6
- (xlviii) Weather Forecast Technician – Level: NTA 4-6
- (xlix) Metrology Technician – Level: NTA 4-6
- (l) Metrology Engineer – Level: NTA 7-8
- (li) Land Survey and Mapping Technician – Level: NTA 4-6
- (lii) Furniture Production Technician – Level: NTA 4-6
- (liii) Architectural Engineering Technician – Level: NTA 4-6
- (liv) Architectural Material Production and Processing Technician – Level: NTA 4-6
- (lv) Architectural Interior Design Technician – Level: NTA 4-6
- (lvi) Water Conservancy and Hydropower Engineering Technician – Level: NTA 4-6
- (lvii) Water Conservancy and Hydropower Engineering Engineer – Level: NTA 7-8
- (lviii) Renewable Energy Engineering Technician (Hydro) – Level: NTA 4-6
- (lix) Renewable Energy Engineer (Hydro) – Level: NTA 7-8
- (lx) Renewable Energy Engineering Technician (Solar) – Level: NTA 4-6
- (lxi) Renewable Energy Engineer (Solar) – Level: NTA 7-8
- (lxii) New-Energy Vehicle Technician – Level: NTA 4-6
- (lxiii) New-Energy Vehicle Engineer – Level: NTA 7-8
- (lxiv) Railway Locomotive Operation and Maintenance Technician – Level: NTA 4-6
- (lxv) Railway Locomotive Operation and Maintenance Engineer – Level: NTA 7-8
- (lxvi) Lifting, Loading and Unloading Machinery Operation Technician – Level: NTA 4-6
- (lxvii) Welding Technician – Level: NTA 4-6
- (lxviii) Welding Engineer – Level: NTA 7-8
- (lxix) Mechanical Equipment Maintenance Technician – Level: NTA 4-6
- (lxx) Mechanical Equipment Maintenance Engineer – Level: NTA 7-8
- (lxxi) Mechanical Equipment Installation Technician – Level: NTA 4-6
- (lxxii) Mechatronics Technician – Level: NTA 4-6
- (lxxiii) Mechatronics Engineer – Level: NTA 7-8

- (lxxiv) Electrical Equipment Installation and Maintenance Technician – Level: NTA 4-6
- (lxxv) Electronic Equipment Assembly and Repair Technician – Level: NTA 4-6
- (lxxvi) Software Engineering Technician – Level: NTA 4-6
- (lxxvii) Software Engineer – Level: NTA 7-8
- (lxxviii) Big-Data Technician – Level: NTA 4-6
- (lxxix) Big-Data Engineer – Level: NTA 7-8
- (lxxx) Artificial Intelligence Technician – Level: NTA 4-6
- (lxxxi) Artificial Intelligence Engineer – Level: NTA 7-8
- (lxxxii) Mobile Application Development Technician – Level: NTA 4-6
- (lxxxiii) Mobile Application Development Engineer – Level: NTA 7-8
- (lxxxiv) Cyber Security Technician – Level: NTA 4-6
- (lxxxv) Cyber Security Engineer – Level: NTA 7-8
- (lxxxvi) Webcast Technician – Level: NTA 4-6
- (lxxxvii) Digital Media Technician – Level: NTA 4-6
- (lxxxviii) Film and Television Production Technician – Level: NTA 4-6
- (lxxxix) Cross-border E-Commerce Technician – Level: NTA 4-6
- (xc) Cross-border E-Commerce Engineer – Level: NTA 7-8
- (xci) Accounting – Level: NTA 4-6

5. Please feel free to propose and add more occupational standards in other sectors and areas to be developed to support TVET development in Tanzania under this Second Batch period based on the available support capacity from your office.

6. We are looking forward to cooperating with you on the development of Tanzania TVET Occupational Standards to enhance the development of TVET in Tanzania to ensure production of qualified graduates to feed the various sectors of the economy in the country.

Looking forward to your continued cooperation.

Yours Sincerely,



Dr. A.H. Makota

For: EXECUTIVE SECRETARY

Cc: China-Africa Vocational Education Alliance

China-Africa (Chongqing) Vocational Education Alliance

Belt and Road Alliance for Industry and Education Collaboration

Chinese Testing, Inspection and Certification Education Association

International Exchange and Cooperation Committee of the Shaanxi Society
of Technical and Vocational Education

附件 2

**第二批“坦桑尼亚国家职业标准开发项目”
立项建设单位遴选申请表**

院校名称（盖章）：_____

主管部门：_____

申报日期：_____

中非职业教育联盟制

2022 年 8 月

填 写 说 明

一、请按照填写提示，如实填写各项。

二、请用 A4 纸双面打印，于 2022 年 9 月 20 日前将加盖学校公章的纸质申报书（一式两份）邮寄至中非职业教育联盟秘书处（地址：山东省青岛市西海岸新区金沙滩路 598 号 青岛国际合作交流中心 312 室，收件人：李老师，电话：13001670250），并将申报书电子版以 word 文档格式（单位名称+申报专业等级）发送至邮箱：lihaoyang@brpetro.com。

三、涉密内容可不填写，但须单独注明。

四、本表栏目未涵盖的内容，需要说明的，请另附材料。

五、申请咨询：

中非职业教育联盟秘书处

联系人：马老师 15908945081 许老师 18561813603

一、申请院校情况

学 校 情 况	是否有在非洲地区开展国际交流合作计划		<input type="checkbox"/> 是 <input type="checkbox"/> 否	
	相关国际交流合作部门成立的时间与人数		年	人
	上级主管单位			
拟 申 请 职 业 标 准 相 关 专 业 介 绍	拟申请职业标准名称 和等级			
	说明拟申请相关专业的基本情况（包括师资（专家）、专业所具备的行业特色或优势，可附件）			

二、推荐意见及联系信息

推 荐 意 见	<div style="text-align: right; margin-top: 600px;"> 学校（章）： _____ 年 月 日 </div>			
联 系 人 信 息	姓 名		部门及职务	
	办公电话		传 真	
	手 机		电子邮箱	