South-South Cooperation

Training Introduction

About Industrial Robot / Artificial Intelligence / Related Courses

By CamHr Information

CONTENTS

01

PART ONE

Introduction of CamHr

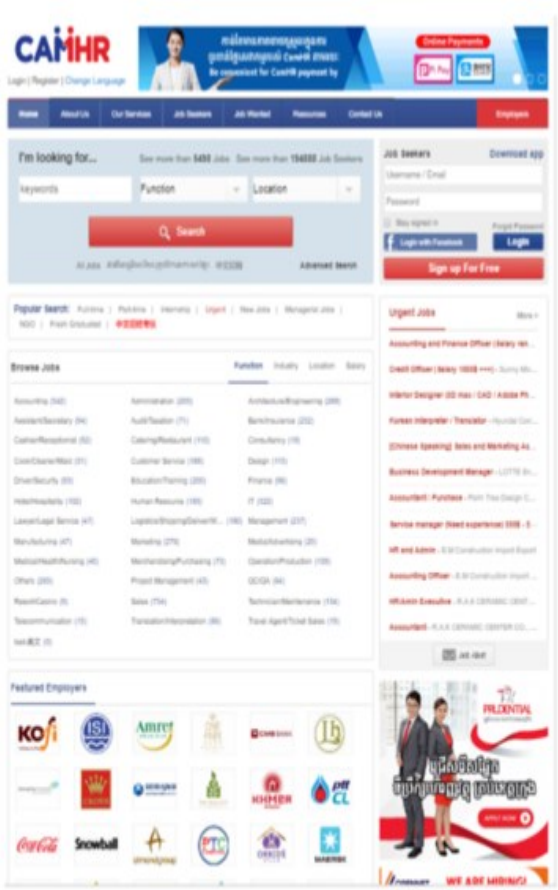
CamHr Profile

Founded in 2009, CamHR Information (Cambodia) Co., Ltd. (Hereinafter referred to as CamHR) is the largest and most professional human resources solution provider in Cambodia.

Its official website ***www.camhr.com*** is the most visited job website in Cambodia, daily providing more than 5000 up-to-date job information for job seekers.

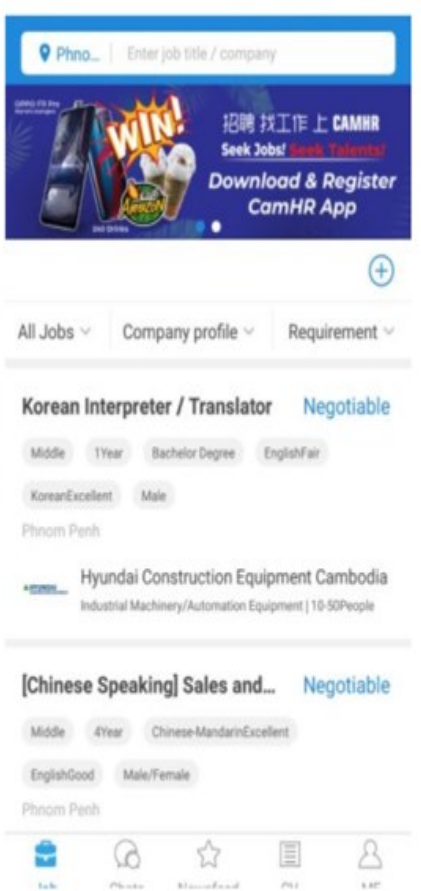
CamHR has pooled more than 600,000 CVs of job seekers and 250,000 visitors to seek jobs through its website and possesses over 80% of the market share with more than 50,000 enterprise customers, 2,000 monthly active employers as well as over one million followers on CamHR Facebook page. In March 2017, its multimedia platform - CamHR TV was officially launched.

Our Network



No.1 Job site in Cambodia
More than *5 million* Page Views per month
More than *50,000* clients already trust us

No.1 Job Facebook like in Cambodia
Over *1 million* likes/followers



No.1 Job seeker App in Cambodia
50000+ downloads

Government: MLVT, MoEYS, HRD Korea…

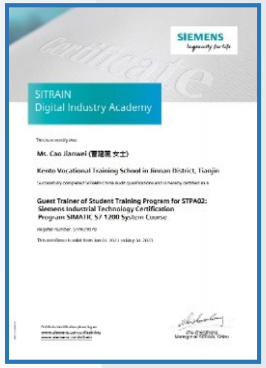
University: NPIC, PUC, ITC, AEU, NIB, NPIA,Confucius Institute…

Training Center: JMASIA, EDI, LIFE…

Organization: PSE, NEA, CKCC, CJCC, Khmer-Chinese Association In The Kingdom Of Cambodia…

Our Partner OF This Course

The officially authorized robot training center, in order to promote the training of industrial robot application talents, strengthen the employability and industry competitiveness of the students, and also lay a solid foundation for the students to learn the robotics major, and hereby carry out the FANUC industrial robot skills training.



Cooperate with Siemens Industrial Technology Training Center to gradually integrate through the joint construction of curriculum system, professional teacher team building, and talent training. Students and employers can log in at any time to check the certification information and download the latest Siemens technical software and materials.

As an EPLAN authorized training center, our school is authorized by EPLAN to teach the students who come to the school for training on demand. It adopts open teaching and guides students to master the relevant content from the simple to the deep. After the course, EPLAN will issue a training certification certificate.

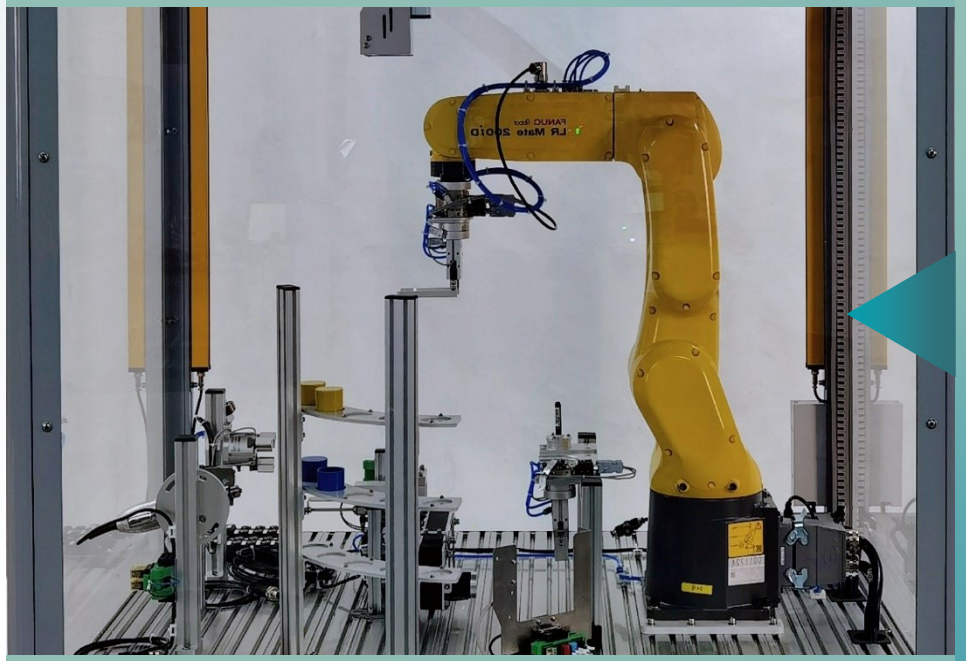
With global standard certification system + "University Program" teacher & student certification, Tridium is widely used in 77 different countries and regions around the world, and there are more than 800,000 sets of technology platforms operating stably in different fields, including intelligent buildings, infrastructure management, industrial control, Smart grid, energy, refrigeration, HVAC, etc.

02

PART TWO

Industry Robot

CAMHR
WE ARE THE HR PROFESSIONALS

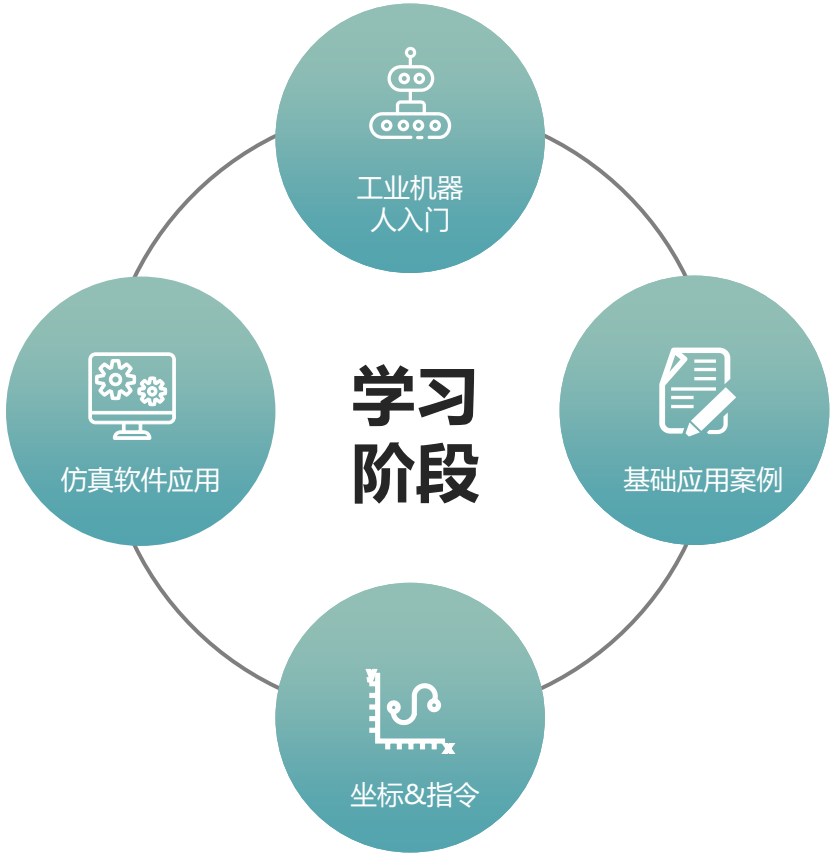


Industrial Robot Training

- Our course: This course starts from the general basic cognition, programming application, simulation teaching and case analysis of robots, and provides professional and meticulous technical training for zero-based personnel from shallow to deep.
- Training objectives: It is hoped that through this training, the trainees can understand the general situation of industrial robots, be familiar with the basic operation and programming methods of industrial robots, and can use ROBOGUIDE for simulation tests.
- Equipment introduction: The equipment is mainly based on FANUC industrial robots and SIEMENS PLC, with industrial vision system, grinding machine unit, simulated numerical control processing unit, material assembly and handling unit, plane trajectory training unit, etc., which can realize robot grinding, sorting and assembly. and warehousing and other classic processes.

✓ Professional ✓ Project ✓ Distinguish ✓ Inspiring

Training Content



A Introduction to Industrial Robotics Basics

- Safety Training
- Robot jog operation
- program management

B Simulation software application

- Software introduction and installation
- Recognize the interface
- Introduction and use of common functions

C Industrial Robot Coordinate System and Instructions

- Introduction and practice of coordinate system Setting
- Instruction Learning and Editing
- Instruction Practice

D Application Case

- Robot simple handling procedure training
- Robotic palletizing exercises

Training Content

E Signal Introduction and Practice

- Signal introduction
- Robot sorting

F Robot maintenance

- Backup and Load
- basic maintenance

G Competition assessment

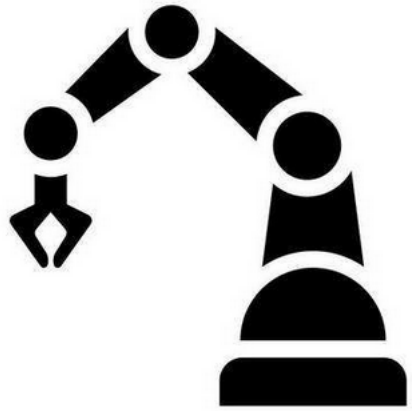
- Competition
- Assessment

Employment field

CAMHR
WE ARE THE HR PROFESSIONALS

Industrial Robot Employment Field

- Automotive Manufacturing
- Electronic and electrical industry
- foundry industry
- Food processing field
- Chemical Industry
- Home appliance manufacturing direction
- medical image processing
- Metallurgical industry
- 3D printing technology



Career direction

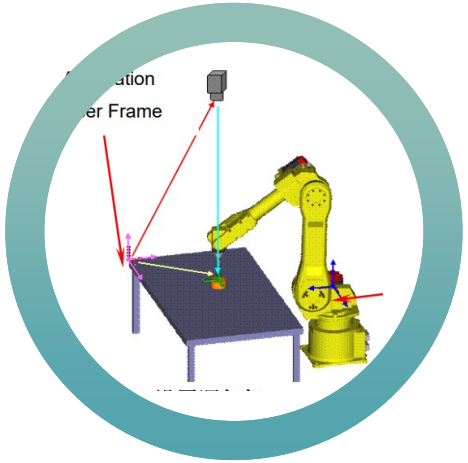
Industry Robort

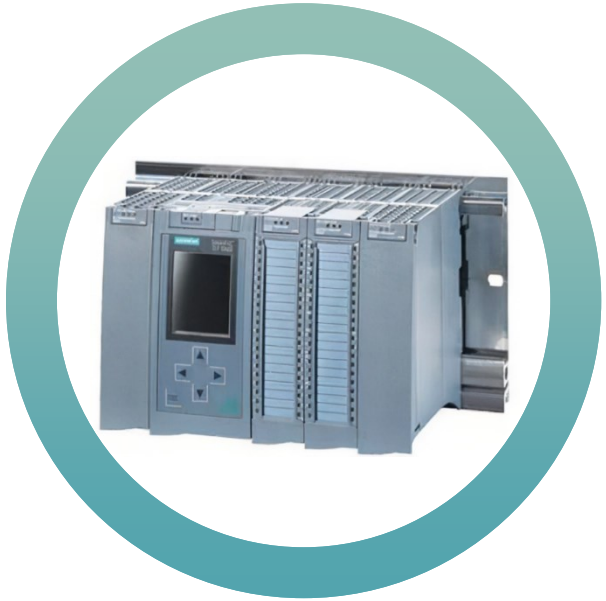
- Robotic Assembly Technician
- Robot system debugging engineer
- Robot Simulation Engineer
- Robot Design Engineer
- After-sales maintenance engineer
- Robot Marketing Engineer

The further Learning

2D vision

Teaching the application user coordinate system
set up the camera
Calibration camera





Human-computer interaction

Introduction to Human-Machine Interface
Hardware configuration
screen configuration

Programmable logic control

Basic application of TIA software
basic instructions
Project creation

03

PART THREE

AI

Training Content

Artificial Intelligence Training

- Related introduction: Artificial intelligence is a science that studies how to use computers to simulate human intelligence activities such as perception, reasoning, learning, thinking, and planning that the human brain is engaged in, to solve problems that require human intelligence to solve, and to extend human intelligence.
- Training objectives: Master the basic concepts, basic principles, knowledge representation, programming methods and network settings of artificial intelligence and other related knowledge.

✓ 专业　✓ 项目　✓ 特色　✓ 培训

Training Content

A language analysis

- voice wake up
- Semantic recognition

B Perception and Analysis

- ace registration
- face recognition
- Multithreading

C Monitoring and Diagnostics

- Gateway settings
- data collection
- Troubleshooting
- Screen monitoring

D Communication Technology

- TCP communication technology
- Controller application

E Image acquisition and processing

- picture collection
- Image calibration
- Create modeling
- training modeling

Employment field

人工智能就业领域

- Mechanical manufacturing direction
- field of scientific research
- education field
- computer direction
- human resource Management
- Electric Automation
- Computer Vision and Pattern Recognition Orientation
- medical image processingdriverless field
- Smart life and smart city, etc.

Career direction

AI

- algorithm engineer
- program development engineer
- Artificial Intelligence Operation and Maintenance Engineer
- Intelligent Robot R&D Engineer
- AI hardware expert
- Software and hardware developers

The further learning

Convolutional Neural Network

Good at processing images, especially large ones Related machine learning problems.

Deep Belief Networks and Recurrent Neural Networks

•A deep belief network is a probabilistic generative model.
•A recurrent neural network that takes the sequence number as input, recurses in the evolution direction of the sequence and all nodes are connected in a chain。

Autoencoders and Sparse Coding

•Autoencoders are used for dimensionality reduction or feature learning.
•In a large data set, select a small part for to reconstruct the new data for the element.

04

PART FOUR

Other Course

Other trainings

Introduction to Mechatronics
Training EPLAN software training
Smart grid of electricity

✓ 专业　✓ 项目　✓ 特色　✓ 培训

Equipment introduction

Mechatronics Intelligent Control Advanced Application Platform

The equipment can be used not only for basic skills training in electrical, electromechanical and other majors, but also for skills assessment of this major, and also for small industrial assembly lines that use graduate students as pre-job training.

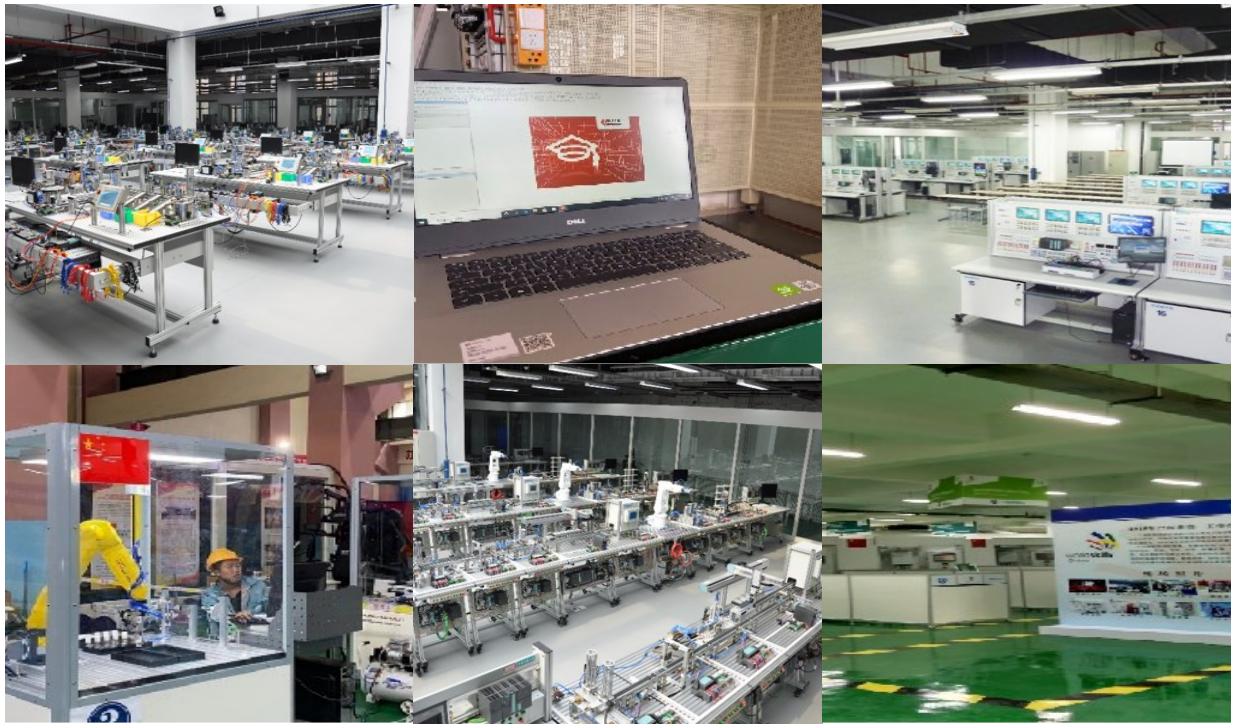
EPLAN drawing designApplication platform

As a pioneer in the era of electrical computer-aided design, eplan avoids heavy and repetitive work through more standardized macro variable technology, thereby improving the design efficiency of users.

KUKA Industrial Robot Engineering Application Innovation Platform

The device can be integrated into the required robot engineering application system from different modules and units according to different work task requirements, and complete the process of trajectory operation, material supply, handling, palletizing, etc.

Site application



THANK YOU