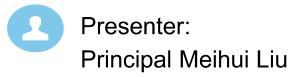
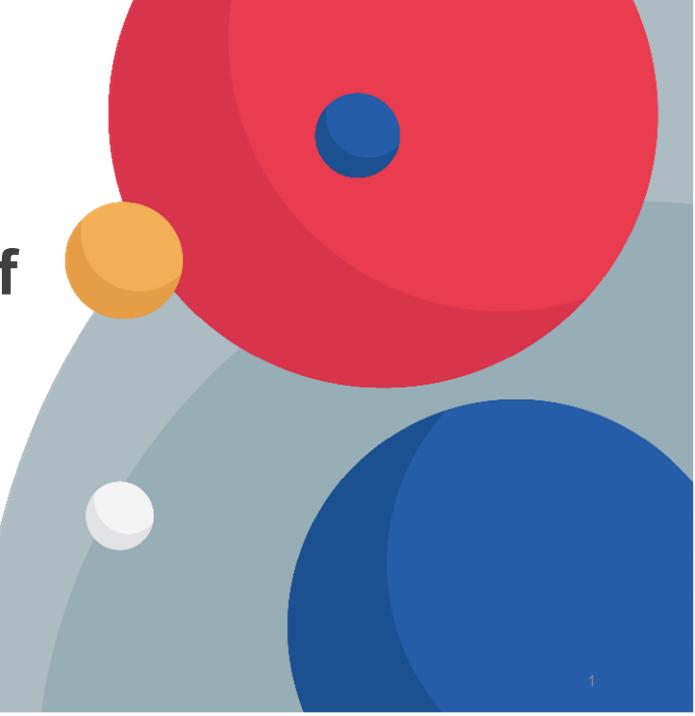
The Transformation of NKHS



Taipei Municipal Nangang Vocational High School





Information about NKHS

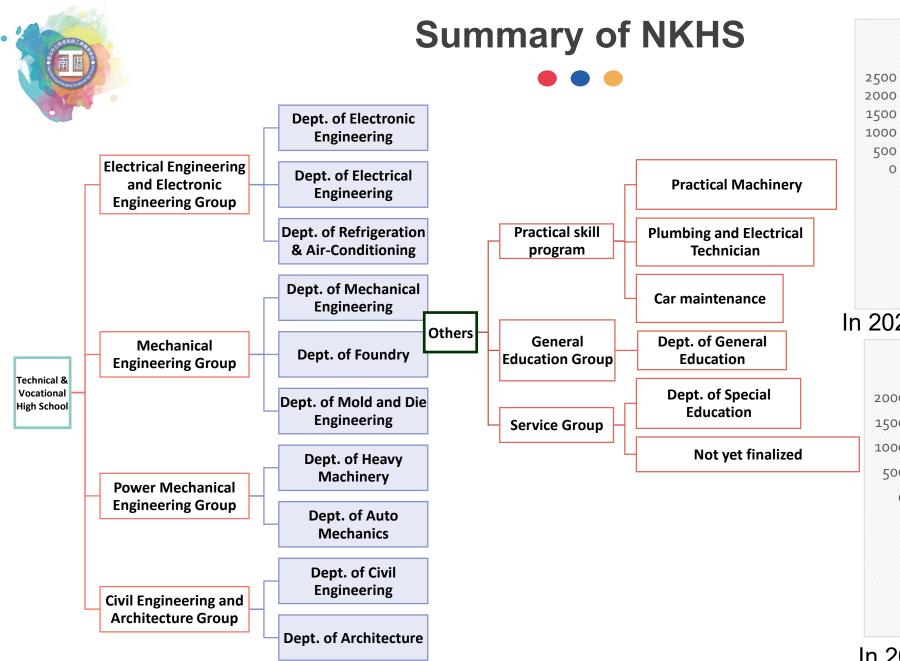


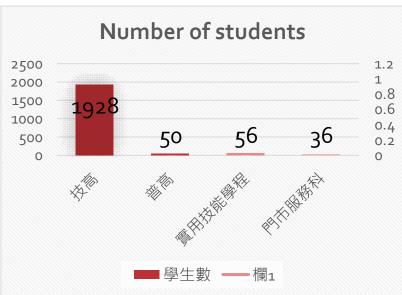
Our Campus

Land Area: 93,517 m² Ninety three thousand and five hundred seventeen square meters

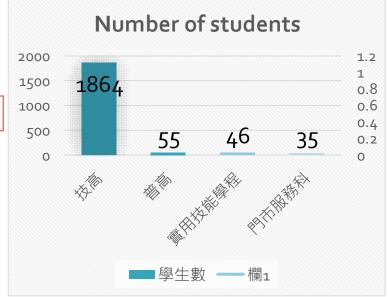
Floor Area: 90,946 m²







In 2022, 67 classes, 2070 students



In 2023, 66 classes, 2000students



School Vision –All-round winners for this generation

Mission
Discover self
through learning

Commitment
Find value
through commitment

敬: respect 業: profession 樂: happiness 群: company

Vision群體精神 社會關懷從理解中 開拓視野人我關係 團體歸屬Realization從服務中 實踐人生

Vision
Broaden horizons through understanding

Realization
Find meaning
through service

Encourage students to complete the mission, strengthen commitment, focus on practical approach to broaden horizons

Dedicated and Respectful Students from NKHS

Prepare students' professional success with dedication and all-round development. Every student can find their own specialty so as to achieve the vision "all students are winners"



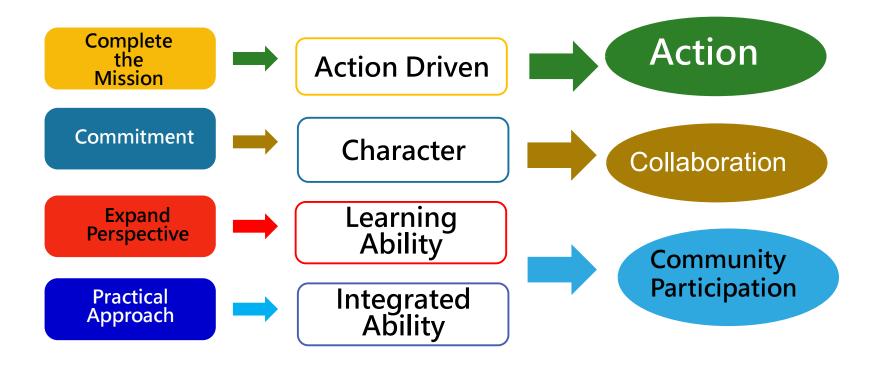
Student Vision



Student vision

Skill

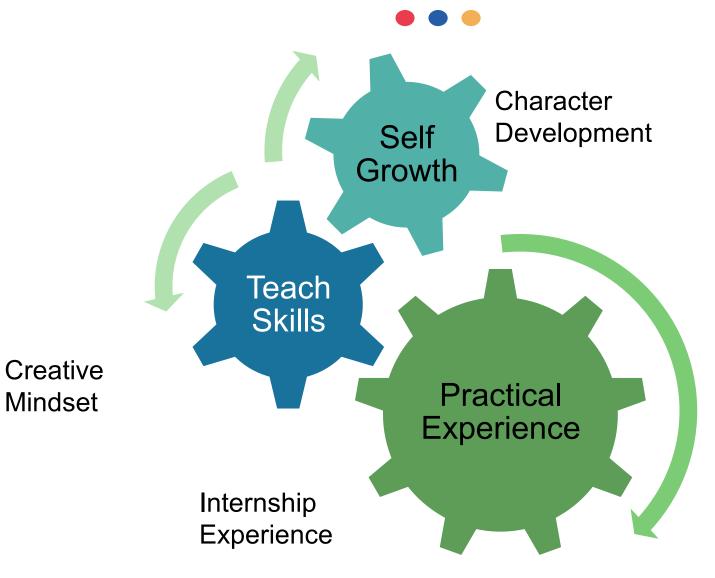
Core Competence



Improve professional ability, build character, and cooperate with others



Educational Goal



Cooperate with the industries



Vision and Innovation



Provide solid foundation and develop individual talents

Promote adaptive development

Pragmatic orientation and strategic alliance

Based on individual talents

----〇 務實導向與策略聯盟

發展創新課程與教學

--- 優化教學環境與設施

Professional skills

Develop innovative programs and teaching styles Optimize teaching environment and facility

優化教學環境與設施 O----Optimize teaching environment and facility
Strategy
Develop innovative programs

Develop innovative programs and teaching styles
Practical and strategic approach

策略聯盟

務實導向

Practical approach 技職教育發展願景與推動政策連結關係

專業能力

適性揚オ

Taipei vocational education development vision and promotion policy

TAIPEL

臺北市

技職教育



Goals and Plans

- Multifaceted, leading, foresight policies
- ◆ Cooperation with Industries
- Skill Competitions
- ◆ Innovation Exhibition
- Improve equipment and facility in apprenticeship

Solid knowledge, Industrial resources, Skill actuation,

ISA and SIEP Skill learning programs

- International Youth English Camp
- New Southbound International English Camp
- Second Language Program
- Incorporated International Issues
- Internship Abroad Programs
- Support System
- Service to Remote Villages and Disadvantaged Group

Flexible programs and Learning

- Develop program with multidimensional expertise
- Teaching center
- Industry-academia cooperation research and project
- Talent training and classes for enforcement
- Maker education

Practical ability

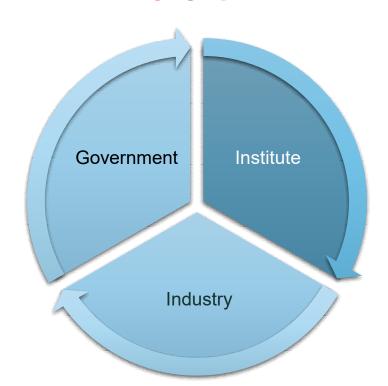
International Competitiveness and social participation

Integration



Implementation of government-industry-institute alliance

- Report to education bureau for cooperation matters
- Co-organize internship abroad programs, specialist training and enterprise internship projects
- ◆ Early recruitment project of the students by the enterprise
- Financial need scholarships in connection with special saving account
- ◆ Develop programs with framework for the 12-year Basic Education Curriculum Guidelines
- ◆ Industry-Institute Cooperation
 Agreement signed by both parties



- Set up cooperative education system team in school
- Review the cooperative education projects

- Discuss with Cooperative Education System Department
- ◆ Software or hardware donation from the industry
- Further education for teachers
- ◆ Internship programs and visit enterprise or industry.
- Sign the Cooperation Agreement and set up the training center



Creating a visual teaching environment

Old equipment and facility
Do not align with the
industry
Insufficient space
Complicated layout



Transform the teaching environment

Teaching environment Simulated environment Safety and healthcare for workspace Internship 5S

Visualize teaching environment

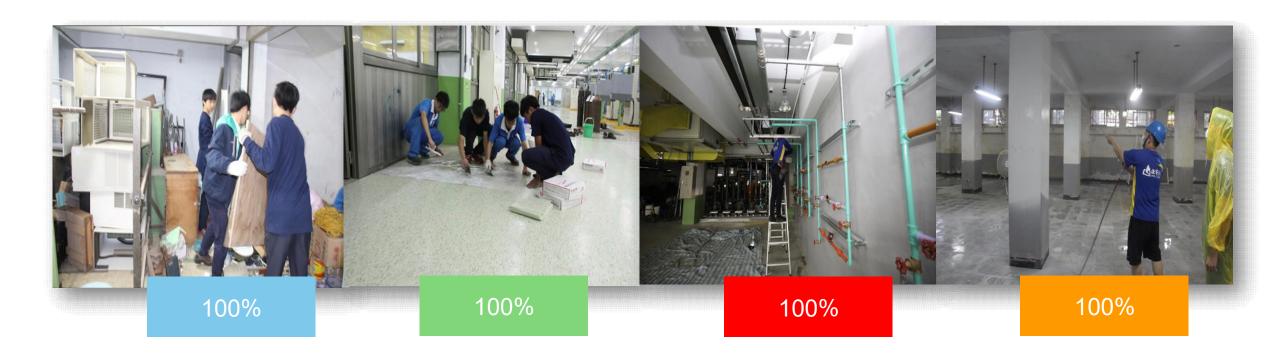
Teaching facility
Multi-dimensional
Module
Align with the industry

NEW

Teaching resources
Digitalize multi media
Visual presentation



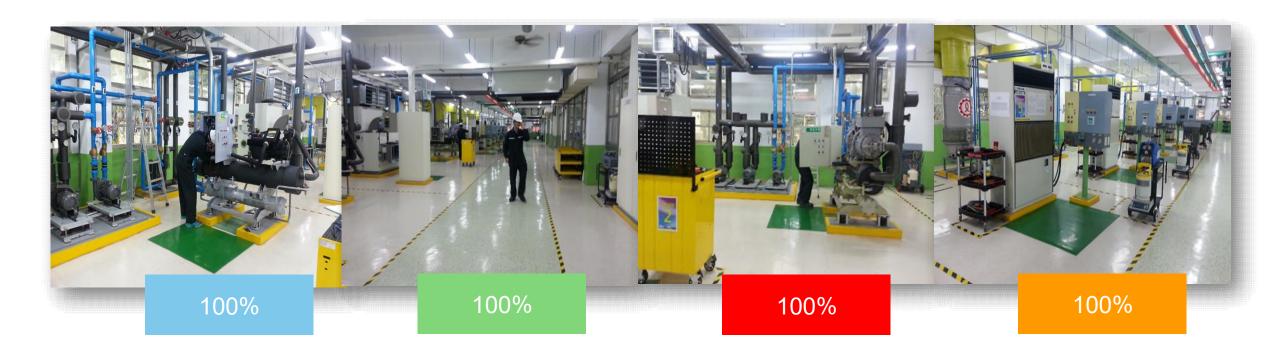
Creating a visual teaching environment



Cooperative effort from both teachers and students to transform the teaching environment



Internship field update and enterprise integration



Teaching environment of the refrigeration & air conditioning class After renovation, it is now the National Examination Site



Internship field renovation and enterprise integration



Automobile Division Electric Vehicle Repair Factory

Mechanical lathe equipment

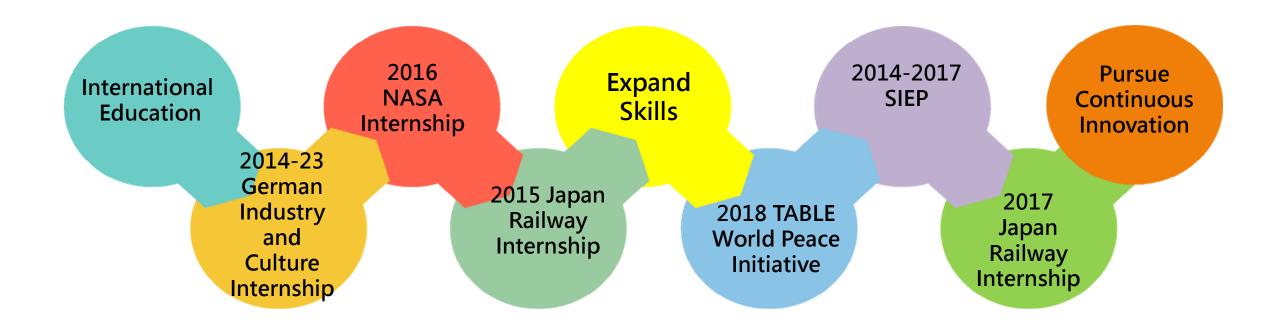
Indoor wiring practice site

Refrigeration and air conditioning practice field

Internship factories for each department



Promote Various Internship Exchange Programs Abroad

















Technical Teaching Centers Of Taipei



Electric vehicle Technology Teaching center



Energy-saving Technology Teaching Center



Automation Technology Teaching Center



Current stage –government-industry-institute alliance





Cooperate with SIEMENS

SIEMENS

Ingenuity for life

- Set up a training center for automation & drives by SIEMENS in 2015 to develop expertise of Industry 4.0
- Set up an automation training center for Taipei vocational high school in 2016 and organize internship program to obtain SMCP certificate.
- 271 students trained from 2015 to 2023
- 1 year internship program in SIEMENS
- Organize a trial training program for expertise in digital science in 2018-2022 to allow vocational high school students to have internship opportunities in enterprise.
- Cooperation strategy:

Facility

- S7-1200
- ·Logo!8
- Provided by automation training center

Software

- •TAI V15
- Sponsored by SIEMENS

Teaching materials

- •S7-1200
- •Logo!8
- Sponsored by SIEMENS

Teacher

- Teacher DING,YI-NENG go to other schools to provide a program to prepare career start
- Itinerant teachers provided by Taipei City Government

Certification

- •SCE
- Sponsored by SIEMENS

Internship

 SIEMENS and other similar industries



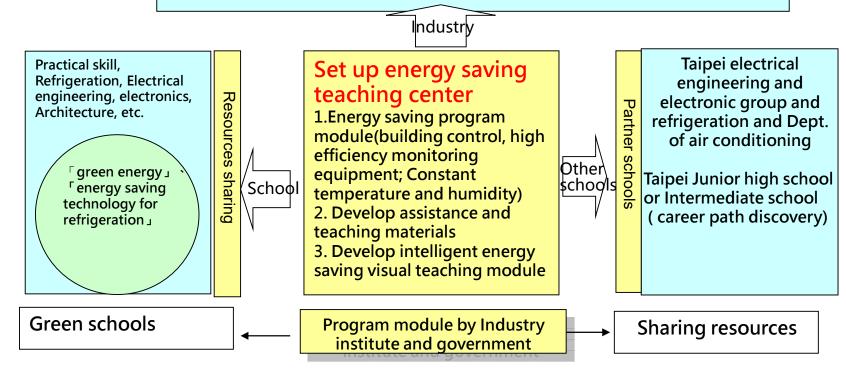
Current stage—Develop and promote energy-saving technology programs

Cooperate with Taiwan Refrigeration and Air Conditioning Association



Industry and institute cooperation

- 1. Taipei Electrical Commercial Association
- 2. Taiwan Refrigeration and Air-ConditioningEngineering Association
- 3. Air conditioner Chief Distributor
- 4. Electrical engineering and electronics industries





Current stage – Develop and promote Electric vehicle technology program

Lead-in period 2019-2020

- Industry donated equipment
- Practice site equipment planning and layout
- Collection and integration of course materials
- Teacher Industry Exchange
- Curriculum Development
- Establishment of teacher certification system for electric locomotive courses

Teacher training period 2020-2021

- Electric locomotive course teacher training
- Electric Locomotive Course Correction
- Teacher Technology Certification
- Learn from the industry

After 2021, course promotion period

- The establishment of practice sites for electric locomotive courses in various schools
- The handling of courses related to electric locomotives in the city
- The professional certification of electric locomotives for students in the city

Electric vehicle teaching technology center

Cooperate with Kwang Yang Industrial Company





Current stage – Develop and promote



■ Short-term assisting: Set up a cooperative relationship by focusing on students' needs and combining resources from the government and industry. Cultivate talents and set up channels for technical exchange.





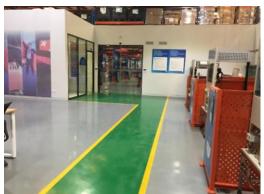
Industry- Institute cooperation to create a win-win situation with great success

➤ International skill contest through industry-institute cooperation



◆Incorporate the experience learned in the international skill contest into learning programs











Achievement in the World Skills competition during 2013 to 2022



2022, 46th international skill contest

Refrigeration & air conditioning — gold medal

2019, 45th international skill contest

Refrigeration & air conditioning — Won

2017, 44th international skill contest

Refrigeration & air conditioning — Won

Refrigeration — Won

2015, 43th international skill contest

Refrigeration & air conditioning — gold medal

Vehicle engineering bronze medal

Plaster technology & Drywall system -Won 2013, 42th
international
skill contest
Refrigeration & air
conditioning —
gold medal

















Achievement in the World Skills competition during 2019 to 2022





Worldskills Competition with excellent records

2 Gold1 Bronze4 Excellencies







Internship work environment improvement

Project for improving internship environment and facility of Taipei technical vocational high school

Facility improvement

Project for improving internship environment and facility of Taipei technical vocational high school

The funding is from the Taipei Education bureau



No connection, no transformation!





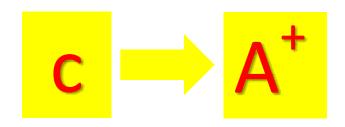
Technical and Vocational Education is not only to equip students with professional skills, but also to cultivate them with good characters by giving them a hopeful and happy learning environment, based on their individual talents for a successful future.



Professional technical training helps students make their dreams come true, from C to A+.



Inferior to superior



感謝您的聆聽

Thank you for listening