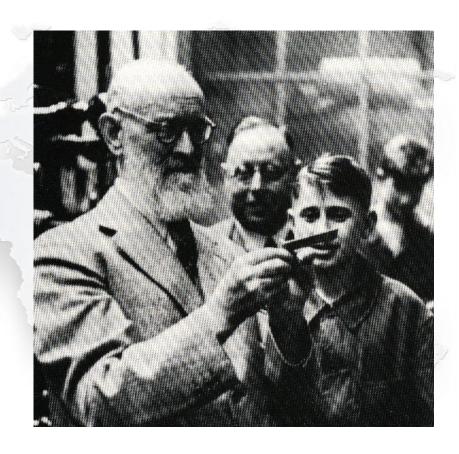
Bosch Apprenticeship Beginning

In 1886, Robert Bosch founded his company with one technician and one apprentice.

That commitment to the skills needed to maintain quality products continues today.



ChP Apprenticeship Program-2015

- → The first Charleston Apprenticeship class graduated in 1979
- → There have been 344 apprenticeship graduates from the program as of January 2015; We currently have 23 first year Apprentices
- → Registered Training programs consist of Set-Up/Maintenance Mechanic, Maintenance Electricians, Tool Makers and Mechatronics Technician
- → Apprentices are trained to the core competencies identified in the current Job and Task analysis



ChP Apprenticeship Program-2015

Selection

Apprenticeship

Completion

Meet minimum requirements on aptitude test

Pass college entrance exam

Interview and practical with production leadership, instructor and HRL

Classroom instruction from both TTC and Bosch instructors

Hands-on training in the apprenticeship shop

Learn teamwork concepts, Work in teams on real CIP projects

Core skills training

Assigned a mentor for training on production equipment

Certificates from TTC in Automated Controls and Industrial Maintenance

Journeyman Certificate from The Office of Apprenticeship Training

Modern manufacturing specific training

Core soft-skills needed to succeed as an influencer/informal leader



ChP Apprenticeship Program-2015 - Curriculum

Year 1

Semester 1

- Measurement
- Print Reading
- Machine Tool 1 *
- DC Circuits 1/2
- Algebra Geometry, Trigonometry

Semester 2

- Machine Tool 2 *
- Hydraulics
- Pneumatics
- AC Circuits 1/2
- Industrial Computer Techniques

Semester3

- · Bosch Safety *
- Sensor Technology*
- Problem Solving for Mechanical Applications
- Solid State Devices



Semester 1

- Programmable controllers
- · Solid State Devices
- Electro-Pneumatic trouble shooting*
- Machining Metals

Semester 2

- Siemens PLC interface*
- AC/DC Drives
- Programmable Controller Applications

Semester 3

- Principles of CNC
- CNC operations
- CNC programming
- Robotics*



Semester 1

• Electrical and Mechanical Rotations with mentors

Semester 2

• Electrical and Mechanical Rotations with mentors

Placement

* Bosch Course

