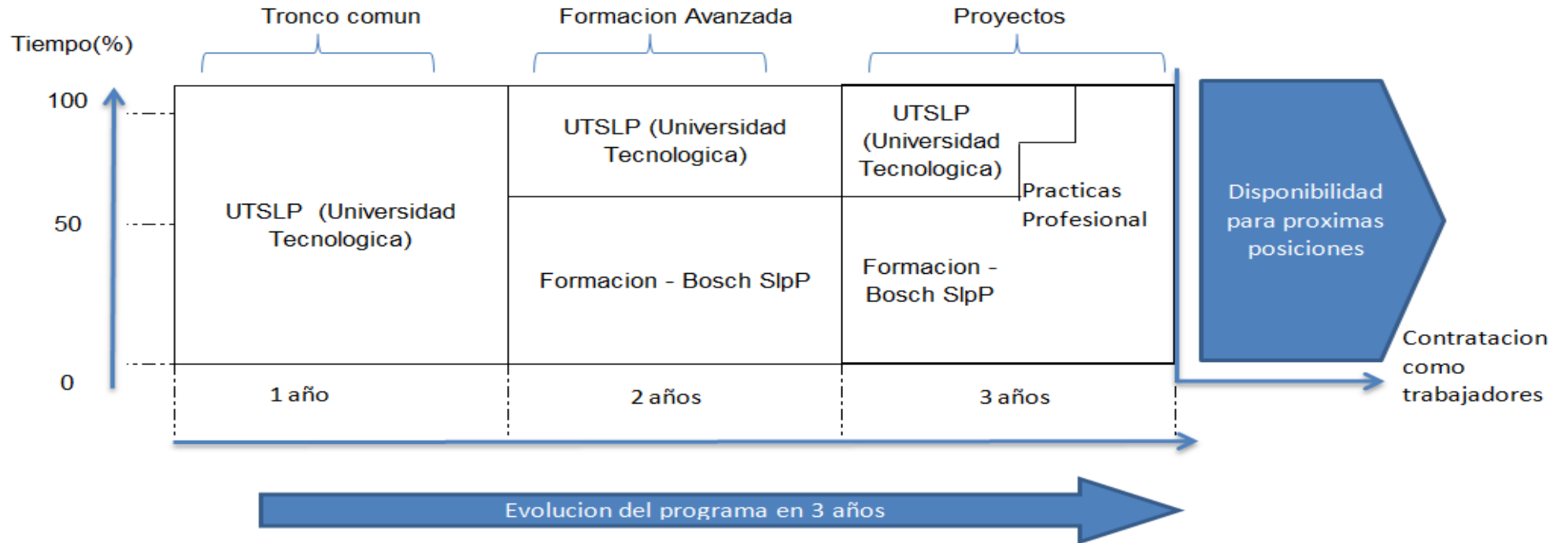


SISTEMA DUAL

SLP PLANT

Sistema Dual en SIpP

Evolucion del Programa Dual



En el 3er año de formacion los aprendices realizan practicas en areas especificas de la empresa, entre ellas: Calidad, Mantenimiento, Manufactura, Ingenieria, Laboratorio, Produccion, Programacion de PLC's, Taller de Moldes e inyeccion.

Sistema Dual en SlpP

Plan de estudios con UTSLP

RETÍCULA PROPUESTA (1ER AÑO UTSLP - 2o y 3er AÑO UTSLP+BOSCH)

| CUATRIMESTRE / ÁREA | 1o. | 2o. | 3o. | 4o. | 5o. | 6o. | 7o. | 8o. | 9o. ESTADIA |
|------------------------------------|--------------------------------------|--------------------------------------|---|--|---|---|---|--|---|
| CIENCIAS BÁSICAS APLICADAS | MATEMÁTICAS 90 HRS | LÓGICA DE PROGRAMACIÓN 45 HRS | | | | | | | |
| | INFORMÁTICA | | | | | | | | |
| FORMACIÓN TECNOLÓGICA | PR | | SISTEMAS DE CONTROL AUTOMÁTICO 75 HRS | SISTEMAS DE CONTROL AUTOMÁTICO 75 HRS | MANUFACTURA 90 HRS | | | ROBÓTICA 90 HRS | |
| | C | | SISTEMAS DIGITALES 105 HRS | PROCESOS DE MANUFACTURA I 75 HRS | SISTEMAS DE MANUFACTURA FLEXIBLE 90 HRS | | | PROCESOS DE MANUFACTURA II 75 HRS | |
| | CTORES | | CONTROLADORES LÓGICOS PROGRAMABLES 105 HRS | | | MANUFACTURA ASISTIDA POR COMPUTADORA 105 HRS | MECÁNICA DE MATERIALES 90 HRS | INTEGRADORA II 90 HRS | 525 HRS |
| | CTORES | | SISTEMAS MECÁNICOS 75 HRS | | | DINÁMICA DE MÁQUINAS 90 HRS | | | |
| | CTORES | | PLANEACIÓN DE PROYECTOS DE AUTOMATIZACIÓN 45 HRS | | | | | | |
| | CTORES | | INTEGRADORA I 30 HRS | | | | | | |
| | CTORES | | INGLÉS III 60 HRS | | INGLÉS IV 60 HRS | | INGLÉS V 60 HRS | | |
| | CTORES | | EXPRESIÓN ORAL Y ESCRITA I 75 HRS | | EXPRESIÓN ORAL Y ESCRITA II 75 HRS | | | | |
| | CTORES | | FORMACIÓN SOCIOCULTURAL I 30 HRS | FORMACIÓN SOCIOCULTURAL II 45 HRS | | | FORMACIÓN SOCIOCULTURAL IV 45 HRS | | |
| | CTORES | | | FORMACIÓN SOCIOCULTURAL III 30 HRS | | | | | |
| LENGUAS Y MÉTODOS | INGLÉS I 60 HRS | INGLÉS II 60 HRS | INGLÉS III 60 HRS | | INGLÉS IV 60 HRS | | INGLÉS V 60 HRS | | |
| HABILIDADES GERENCIALES | EXPRESIÓN ORAL Y ESCRITA I 75 HRS | FORMACIÓN SOCIOCULTURAL II 45 HRS | FORMACIÓN SOCIOCULTURAL III 30 HRS | | | | FORMACIÓN SOCIOCULTURAL IV 45 HRS | | |
| HORAS / CUATRIMESTRE UTSLP | 525 HRS | 525 HRS | 525 HRS | 225 HRS | 240 HRS | 195 HRS | 195 HRS | 195 HRS | |
| HORAS / SEMANA UTSLP | 35 HRS | 35 HRS | 35 HRS | 15 HRS | 16 HRS | 13 HRS | 13 HRS | 13 HRS | |
| ESPECIALIDAD BOSCH | | | | CURSO BÁSICO METAL 264 HRS | MÁQUINAS HERRAMIENTA (TORNO Y FRESA CONVENCIONAL) 40 HRS | NEUMÁTICA 55 HRS | MAQUINADOS CNC 120 HRS | PLC'S 110 HRS | PUESTA EN MARCHA Y SISTEMAS DE PROTECCIÓN EN SISTEMAS MECATRÓNICOS 188 HRS |
| | | | | TECNOLOGÍA MECÁNICA 32 HRS | | DISEÑO DE CONTROL ELÉCTRICO 92 HRS | PRACTICAS DE DISEÑO DE CONTROL 182 HRS | ADMINISTRACIÓN DE PROYECTOS A EMPRESA 200 HRS | PRACTICA DE TALLERES DE MANTENIMIENTO Y ATMO 250 HRS |
| | | | | DIBUJO TÉCNICO MECÁNICO 72 HRS | SOLDADURA Y ACOPLAMIENTOS EN ELECTRICIDAD 58 HRS | PRACTICAS DE DISEÑO DE CONTROL 50 HRS | ELECTRO NEUMÁTICA 90 HRS | INSTALACIONES DE MÁQUINAS Y EQUIPOS 48 HRS | PLC'S 250 HRS |
| | | | | SOLDADURA 24 HRS | TECNOLOGÍA ELÉCTRICA 182 HRS | MANTENIMIENTO INDUSTRIAL 195 HRS | | HIDRÁULICA 56 HRS | |
| | | | | INGENIERIA HUMANA 24 HRS | INSTRUMENTACIÓN ELÉCTRICA 98 HRS | INGENIERIA HUMANA 24 HRS | INGENIERIA HUMANA 24 HRS | | |
| | | | | PROTECCIÓN AMBIENTAL 16.00 HRS | INGENIERIA HUMANA 24.00 HRS | LEAN MANUFACTURING 16.00 HRS | LEAN MANUFACTURING 16.00 HRS | LEAN MANUFACTURING 16.00 HRS | BPS BASICS 32.00 HRS |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HORAS / CUATRIMESTRE BOSCH | | | | 432 HRS | 432 HRS | 432 HRS | 432 HRS | 430 HRS | 720 HRS |
| HORAS / SEMANA BOSCH | | | | 27.00 HRS | 27.00 HRS | 27.00 HRS | 27.00 HRS | 26.88 HRS | 45.00 HRS |
| HORAS / CUATRIMESTRE UTSLP - BOSCH | 525 HRS | 525 HRS | 525 HRS | 657 HRS | 672 HRS | 627 HRS | 627 HRS | 625 HRS | 720 HRS |
| HORAS / SEMANA UTSLP - BOSCH | 35.00 HRS | 35.00 HRS | 35.00 HRS | 43.80 HRS | 44.80 HRS | 41.80 HRS | 41.80 HRS | 41.67 HRS | 45.00 HRS |

Bosch comienza el proceso de venta y reclutamiento

Comienzo del Sistema dual con UT SLP

Practicas en areas de manufactura

Sistema Dual en SlpP

Materias especialidad Bosch

| 4th Quarter | 5th Quarter | 6th Quarter | 7th Quarter | 8th Quarter | 9th Quarter | Responsible person |
|---|---|--|--|---|---|-------------------------|
| BASIC COURSE METAL (Practice of filing,sawing,drilling , tapping, threading) | MACHINE TOOLS (Conventiolan lathe,mill,grinder) | PNEUMATICS | CNC MACHINING | PLC | START UP AND PROTECTION SYSTEMS IN MECHATRONICS SYSTEMS (project of residence) | Miguel Morales |
| Mechanic Tecnology (thory of filing,sawing,drilling , tapping, threading, material,steel , foundry) | SOLDERING AND ELECTRICAL COUPLINGS | ELECTRICAL CONTROL DESIGN | ELECTRICAL CONTROL (practices) | PROJECTS MANAGEMENT (projects in the plant) | PRACTICES ON MAINTENANCE WORKSHOPS AND SUPPORT AREAS (project of residence) | Extenal Supplier |
| Technic Draw (drawing, drawing , norms) | ELECTRIC TECNOLOGY (voltage,curret,resistence) | ELECTRICAL CONTROL DESIGN (practices) | ELECTRONEUMATICS | INSTALLATION OF MACHINES AND EQUIPMENT | PLC´S (with TEF specialists) | Erivan Arriaga |
| Welding (Electric Arc, autogen) | ELECTRIC INSTRUMENTS (electrical mesures, whit different instruments) | INDUSTRIAL MAINTENACE (lubrication, mechanics systems) | HUMAN ENGINEERING (situational leadership) | HIDRAULICS | BPS BASICS | Eliseo Quintanar |
| HUMAN ENGINEERING (Team work and desiocion making) | HUMAN ENGINEERING (Effective Communication) | HUMAN ENGINEERING (Oratory , the art of public speaking) | LEAN MANUFACTURING (7 m) | LEAN MANUFACTURING (5S's) | | HSE |
| HEALT SAFETY AND ENVIRONMENT (work safety, fire combat,first aids, envyronment care) | | LEAN MANUFACTURING (TPM) | | | | BPS |
| 432 hours | 432 hours | 432 hours | 432 hours | 432 hours | 720 hours | |

Sistema Dual en SlpP

Requisitos para ingresar al programa

Antecedentes: TSU Especialidad Manufactura flexible y/o Mantenimiento Industrial
Criterio: 1 Año de carrera TSU en la carrera Mecatrónica
Futuro estatus en planta: Electromecánico / Preparador / Auditor Calidad/ Técnico / Especialista

- 1 Año Teórico completo en la UTSLP
- 2 años de tiempo completo en el programa Dual (4,460 hrs total, 46.5 hrs/semana).
- Aprobar el proceso de selección de Bosch (May-Ago)
- Ser alumno regular y tener aprobadas todas las materias durante el primer año TSU.
- Cumplir con un nivel básico de las competencias Bosch.

Sistema Dual en SlpP

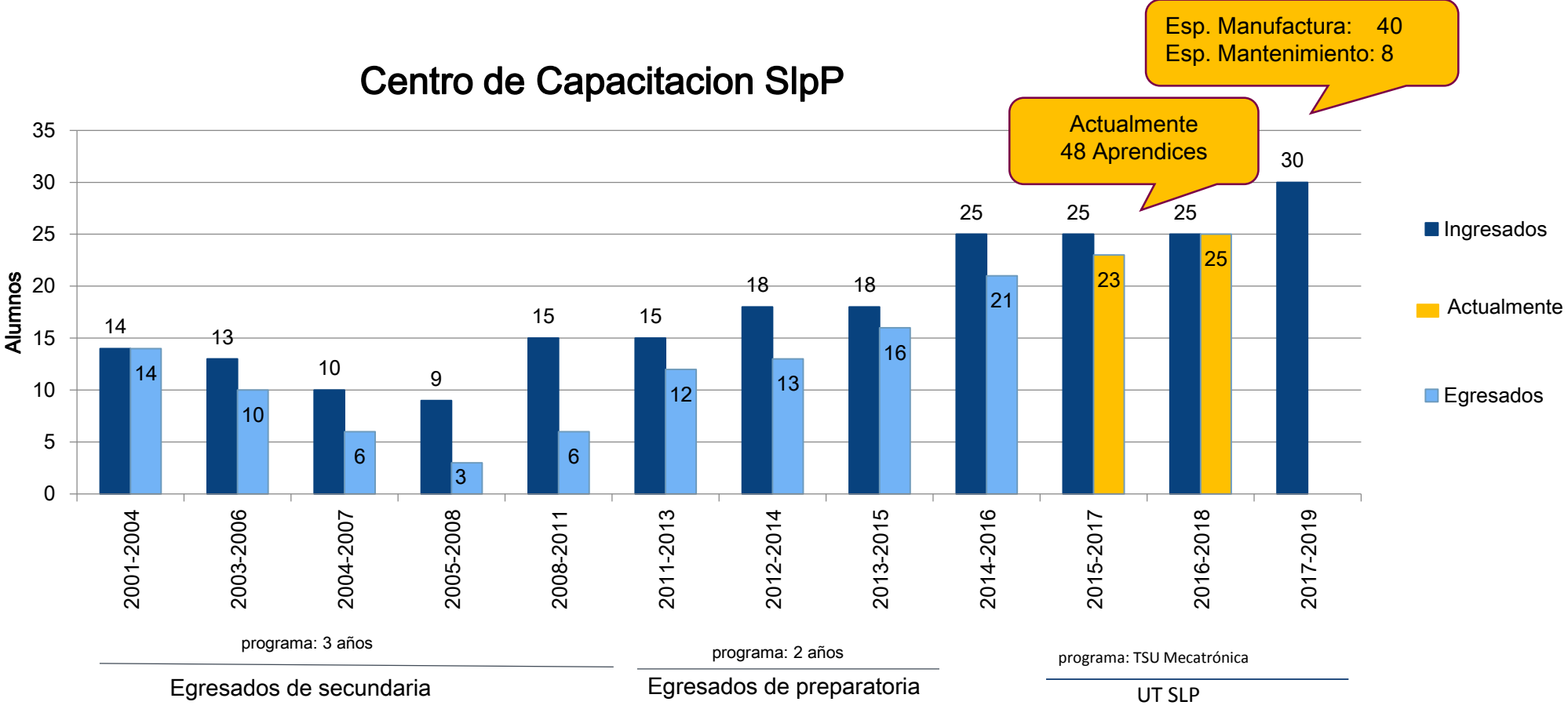
Modelo de competencias Bosch

| Competence Areas | Competencies | Criteria |
|-----------------------------------|-----------------------|--|
| Entrepreneurial Competence | Result Orientation | <ul style="list-style-type: none"> ▶ Sets high targets for own area and pushes self and others for results. ▶ Uses customer and consumer/user insights for improvements of products and services. ▶ Takes tough decisions and implements them, even against obstacles. |
| | Future Orientation | <ul style="list-style-type: none"> ▶ Manages uncertainty, risk and complexity with courage and responsibility. ▶ Encourages creativity and "out of the box" thinking in order to identify future market needs. ▶ Learns and draws adequate conclusions from failures in order to break new grounds. |
| Leadership Competence | Leading My Self | <ul style="list-style-type: none"> ▶ Manages strengths and weaknesses in a self-reflected way. ▶ Develops resilience by managing own personal resources with care. ▶ Uses and maintains learning strategies for personal and professional growth. |
| | Leading Others | <ul style="list-style-type: none"> ▶ Comfortably delegates tasks and decisions with trust. ▶ Drives others and enables them to improve their skills and competencies for top performance. ▶ Ensures fair treatment and opportunity for all – respecting individual aspects. |
| Interpersonal Competence | Cooperation | <ul style="list-style-type: none"> ▶ Builds lasting relationships of trust across levels, regions, backgrounds and cultures. ▶ Deals constructively with people he/she is in conflict with. ▶ Shows empathy when dealing with individuals and teams in a professional context. |
| | Communication | <ul style="list-style-type: none"> ▶ Convincingly presents ideas and concepts to different target audiences. ▶ Makes people feel appreciated even in difficult situations. ▶ Listens actively in order to understand other people's perspectives, behavior and intentions. |
| Professional Competence | Breadth of Experience | <ul style="list-style-type: none"> ▶ Promotes development of professional competencies in own area by systematic application of CptM. ▶ Derives sustainable decisions based on cross-functional knowledge and experience. ▶ Masters project, quality and strategic management. |
| | Depth of Knowledge | <ul style="list-style-type: none"> ▶ Defines and implements future necessary competencies based on business unit's strategy (CptM). ▶ Uses analytical skills in order to solve complex tasks and takes sound decisions. ▶ Has profound functional knowledge and expertise. |

Sistema Dual en SlpP

Estadísticas

Centro de Capacitacion SlpP



Sistema Dual en SIpP

Nuestra mision: “We are Bosch”

Contribuimos a nuestra misión:



Nuestra **misión** – lo que queremos



Nuestras **metas** – lo que nos motiva



Nuestras claves **estratégicas** – lo que nos impulsa

Enfoque en nuestros clientes • Moldear el cambio • Esforzarse por la excelencia



Nuestros **puntos fuertes** – lo que sabemos

Cultura Bosch • Innovación • Calidad excepcional • Presencia mundial



Nuestros **valores** – lo que nos orienta

Orientación hacia el futuro y el resultado • Responsabilidad y sostenibilidad • Iniciativa y coherencia • Transparencia y confianza • Honestidad • Fiabilidad, credibilidad, legalidad • Diversidad



Muchas Gracias!