Occupational Health Services at CSC

中鈿公司

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- CSC(China Steel Corporation), located at Kaohsiung, Taiwan, was founded in December 1971.
- Annual production: around 10 million tons
- CSC and its 21 subsidiaries constitute the "CSC Group" in five business areas: steel, engineering and construction, industrial materials, logistics, and services & investments.
- Employees: 9932 (male: 9682, female: 250)



- The former CEO said:
 "Without safety, everything is zero."
 "Employees' health is our most important property."
- We have been perfecting the safety and health system for years, and won the Safety and health excellence recognition award 2012 from worldsteel association.





SAFETY AND HEALTH EXCELLENCE RECOGNITION AWARD 2012

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"Nothing is more important than the safety and health of people who work in the iron and steel industry"

China Steel Corporation

is recognised for excellence in its commitment and innovation in the pursuit of Zero – an injury free, illness-free and healthy workplace

Xiaogang Zhang { worldsteel Chairman

Edwin Basson Director General

Henk Reimink GM - Safety, Technology and Environment

A SUCCIANIST

China Steel Corporation

world

I. Clinic II. Health exam and follow-up III. Occupational service at job sites IV. Health promotion plans (fat burning weight loss plan, telemedicine)



I. CSC Clinic

Building



Departments

- Registration
- Emergency room
- Health exam and consulting
- OPD
- Pharmacy
- Laboratory
- X-ray



OPD service



- Family medicine
- Internal medicine
- Surgery
- Dentistry
- Cardiology
- Endocrine
- Hepatology
- Chest
- Psychiatry



- ENT
- Ophthalmology
- Fitness
- Quit smoking
- Occupational medicine
- Nutrition and exercise consulting

Personnel

- 17 Doctors
- 14 Nurses
- 3 Pharmacists
- 6 Officers
- 3 Medical technologists
- 1 Dietitian
- 1 Exercise instructor
- Health exam team (15 persons from KMUH)





Registration



OPD



Dental OPD



Pharmacy



Emergency room



Equipment

- AED
- Audiometry
- Automatic analyzer
- Bone ultrasonometer
- Digital X-ray
- Defibrillator

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- ELISA
- EKG

- Inbody
- Pneumo tonometer
- Resusci Annie
- Respirator
- Slit lamp
- Spirometer
- Ultrasound
- Vital sign monitor

Digital X ray



Ultrasound



Lab







Sterilizer



Our service

- First aid
- OPD, vaccination, blood donation
- Epidemic disease control
- Health exam: ordinary and special (chemical, noise, dust..)
- Occupation medicine service
- Health promotion, women's health care, lectures, CPR training

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Health consulting



Blood donation



Fire practice



II. Health exam and follow-up

Health exam items

- Past history, physical exam, waist circumference
- Eyesight, ocular pressure
- Hearing
- Chest X ray (PA + Lat.), EKG, lung function
- Abdominal sono
- Urine and stool routine
- CBC, GOT, GPT, GGT, BUN, CRTN, Uric acid, Cholesterol, HDL, LDL, TG, Na, K, Cl, Lead, HBs-Ag, Anti-HCV, T3, T4, TSH, AFP, urine cadmium, GFR
- Inbody, bone density
- Tumor marker (selective)



Health exam frequency

- < 30 Y/O : every 3 years
- 30-45 Y/O : every 2 years
- >45 Y/O : every year
 (Average age: 50 Y/O)
- newcomer & expatriate
- seafarers



Controlled items and range

item	yellow	red
High BMI	24-35	>35.1
Low BMI	15.1-18	<15
High systolic p.	141-180	>181
High diastolic pressure	91-110	>111
Low systolic pressure	81-89	<80
Low diastolic pressure	51-60	<50
Hyperglycemia	100-250	>251
Hypoglycemia	46-60	<45
Anemia	10.1-13.9	<10
Leukocytosis	10-15	>15.1
Leukocytopenia	3.1-4	0-3
Elevated GPT	45-400	>401
Elevated Creatinine	1.4-5	>5.1
Hypercholesterolemia	201-300	>301
Hypertriglyceridemia	201-500	>501
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Health exam (I)



Health exam (II)



Health exam (III)

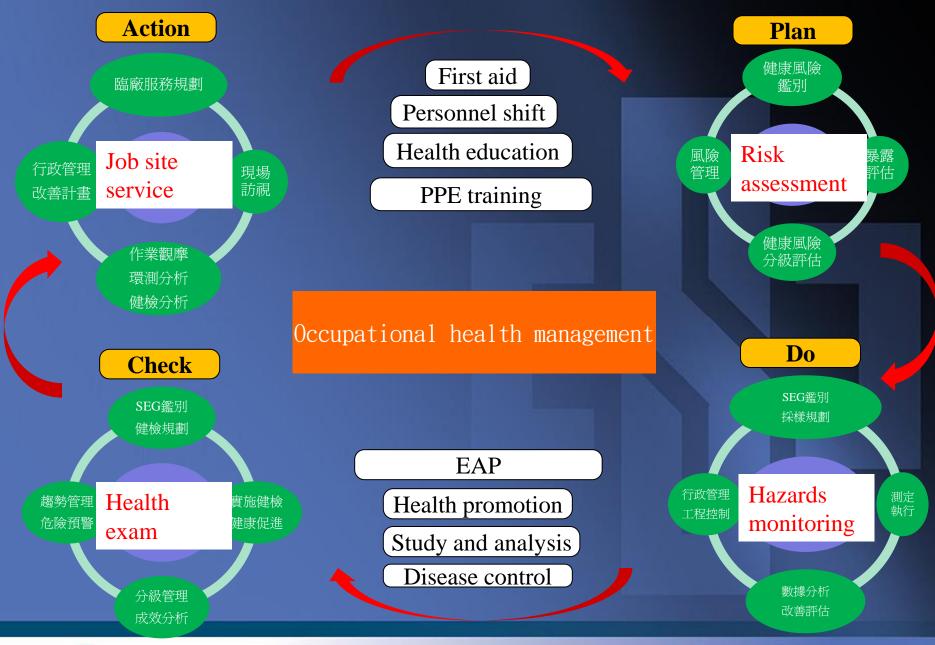


Major problems

- Metabolic syndrome
- Cancer
- Mental problem
- Infectious disease (TB, Norovirus...)

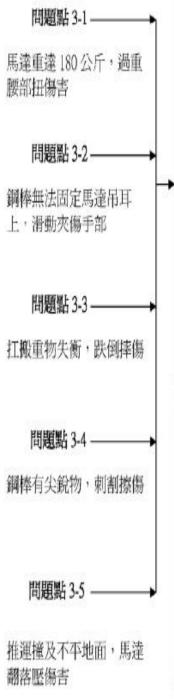


III. Occupational medicine service at job sites

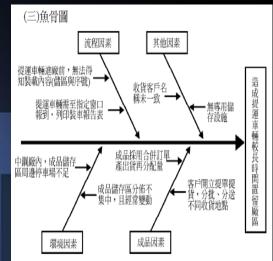




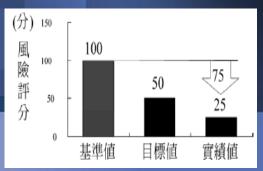


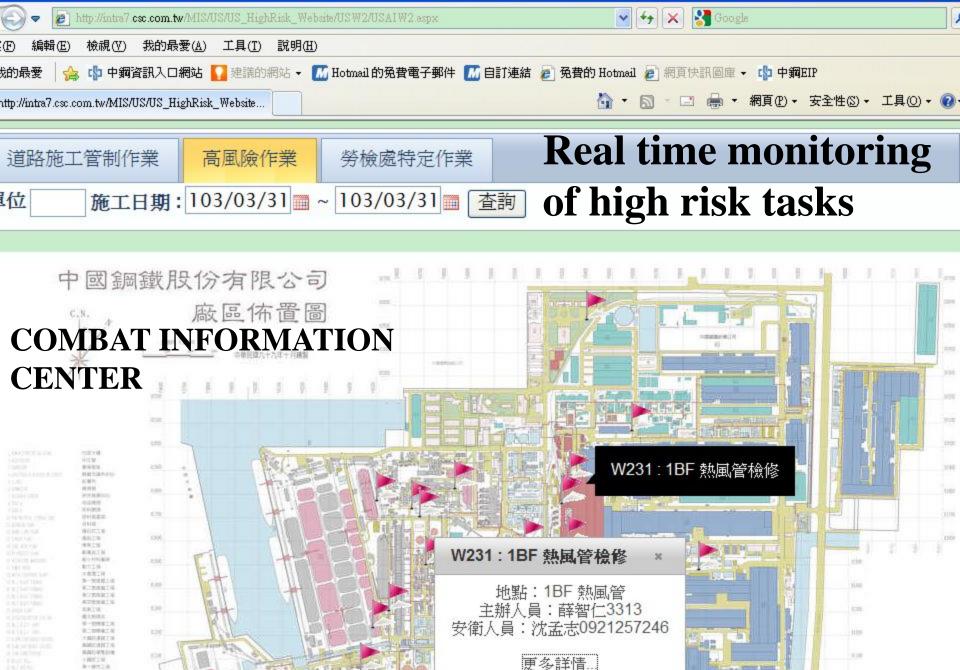






CDA examples

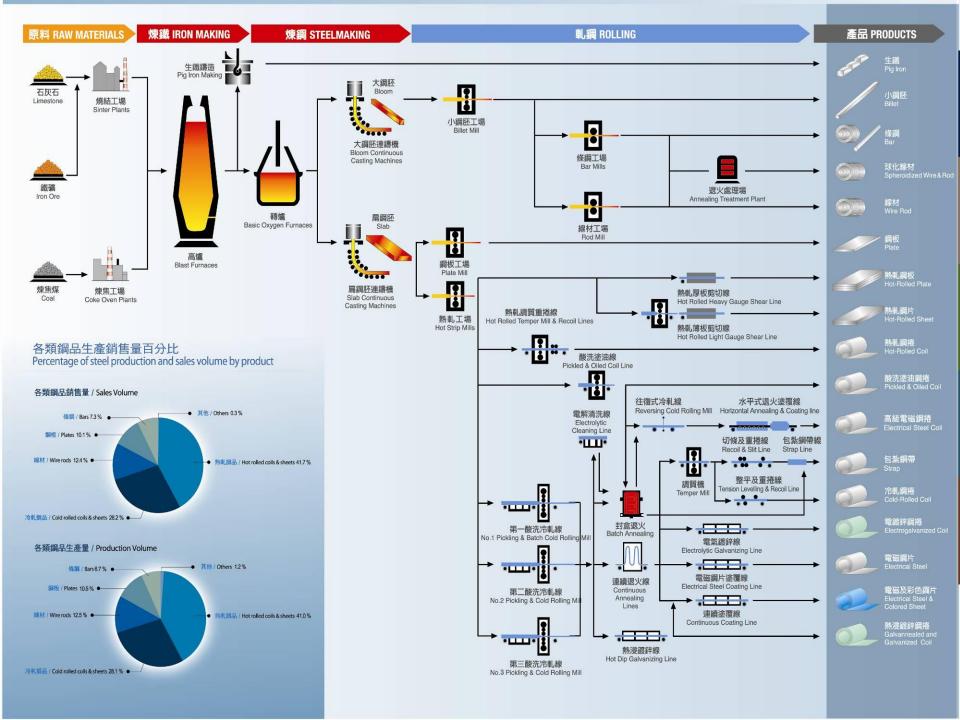




信任的網站

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Process	Risk of injuries
material	falling、twisting、hypoxia & intoxication
transport	twisting、collision、sprain
iron making	twisting、collision、burn、hypoxia
steel making	twisting、cutting、burn、hypoxia
rolling	twisting、cutting、burn
fix	falling、electric shock、cutting、collision 、sprain、burn、hypoxia
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Environment monitoring

- Air- conditioning (all)
- Dust (W1 \ W2 \ W3)
- Lead (Y643 \ Y532 \ W65)
- Tetra methyl lead
- Organic solvate (T2-T6 \ W1-W6 \ Y4 \ Y5)
- Special chemicals (T1 · W2 · W5 · W6 · Y4 · Y5)
- Radiation
- Noise (all)
- High temperature (W2-W5 \ Y4 \ Y5)
- Tunnel



Chemicals monitoring

(TOP 5):
CO2 742
Dust 119 (W1 \ W2 \ W3)
HCl 36 (Lab \ pickling \ water plant)
Benzene 21 (W21 \ W25)
H₂SO₄ 15 (W5)



Occupational Safety and Health Act July.3.2013 Modified

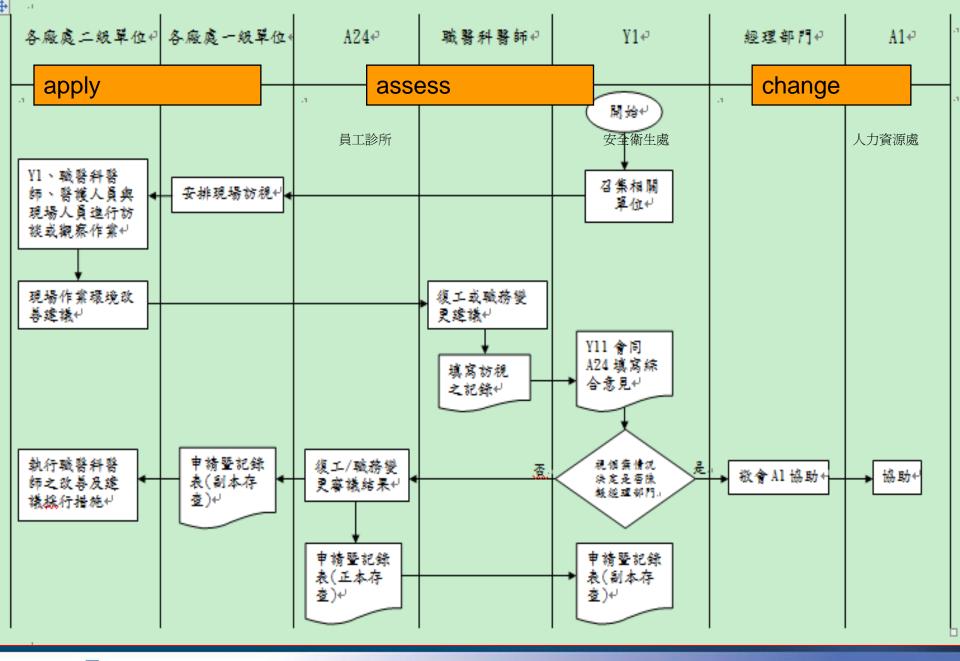
- Article 20 ... The laborers are obligated to accept the examinations in Paragraph 1.
- Article 21 The employers shall not employ laborers to engage in a particular type of work for which the physical examination in the preceding Article finds the laborers to be unsuitable for employment. Where a health examination finds an informal condition in laborers, medical personnel shall provide the laborer with health guidance...



Occupational Safety and Health Act July.3.2013 Modified

• Article 21 ... Where the results of a physician's health assessment indicate that a laborer is not suited for his or her original work, the physician's recommendations shall be referred to in changing the laborer's job sites, reassigning the laborer to different duties, or shortening his or her working hours, and adopting health management measures.





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Abnormal health exam results in special workplaces (2012)

47 cases with abnormal health exam results in special workplaces were suspected occupation-related. (radiation: 1 \ chemical: 1 \ high temp:1 • noise 44) They were reviewed by occupational medicine doctor, and the results

showed no relation.



Case 1

A contract worker with hypertension and CAD # Hot rolling quality control unit # Suspect high temperature environment



Hot rolling quality control



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Assessment

- # Environment: It is not a high temperature place according to the law.
- # Job description: panel control in the office, 15-40 min check/roll, 8 hours/day, Max. 16 rolls/day # Suggestion: no contraindication, keep good BP



Case 2

Some low back pain cases in the 2nd hot strip mill: coiling area, rolling area, hanging area



Coiling area





lubrication

cleaning



Roller exchange area

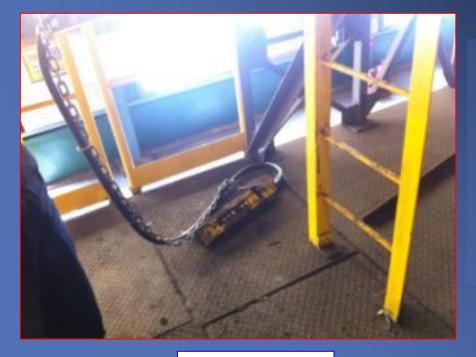


roller

panel



Hanging area



hanging

maintenance



Assessment

Coiling area: lubrication and cleaning # Rolling area: change the roller # Hanging area: hanging and maintenance # No long-time bending, no heavy lifting # Suggestion: no relation



Other cases

- Parkinson's disease (bus driver), shifted
- DM with triopathy (crane operator), retired





IV. Health promotion

plan



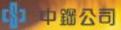
Fat burning weight loss plan









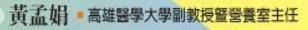


專業的師資 打造您個人專屬的健康顧問 中鍋的亞力山大 等待您的加入! 我們將免費為做安排總導能檢測,依照個人體質為做異立連動處方 與飲食需養課程、渴生動的醫商課程更讓做開心樂活,如果您有特別的醫康需求,更有一對一醫賣證如,表現優異者還有精美層物途 給您!! 讓我們一起守護健康, 魚負費。



惠業師會

王肇齡。高雄醫學大學保健科主治醫師





陳昭彦。高雄醫學大學運動醫學系助理教授



-健康守護天使-診療所護理人員 -您的健康伙伴-97年3月 即將引爆 ake it !

主辦單位:診療所健康管理中心 協辦單位:軋鋼二場、高醫保健科 健康專線:分機5227洽李小姐











(InBody) analysis

康健蓄黏

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带 条 字 有 杆 廷 诫

商國民健康體能測定項目及

※決量時請加下手 ※請於何,項解請



Speecn Total C HDI



Achievement

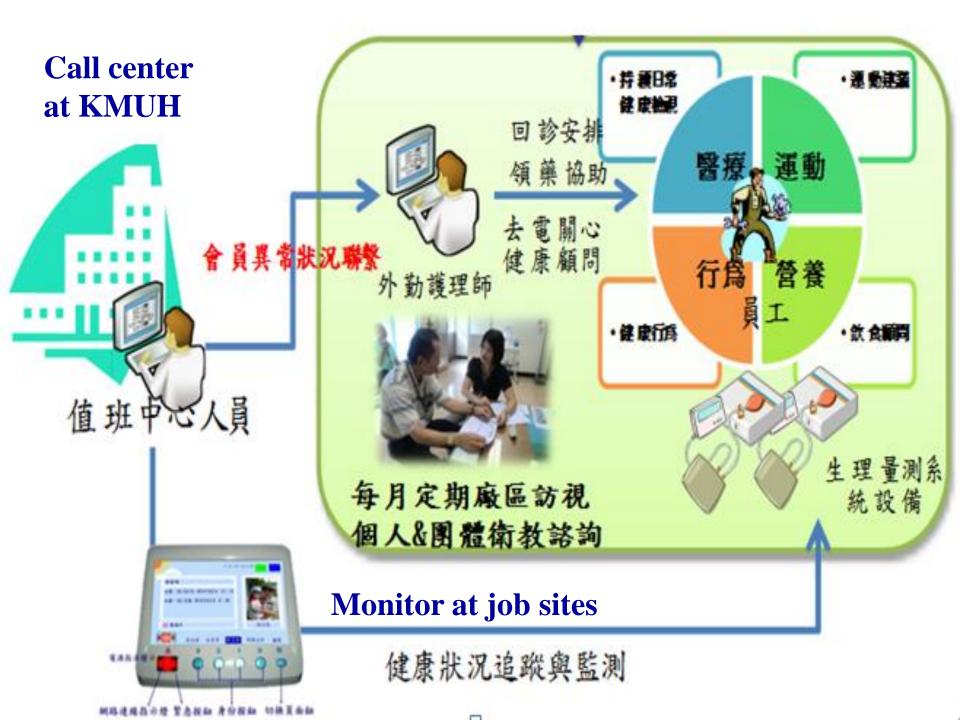
2011 300 participants, 511.7 kg
2012 324 participants, 752.6 kg
2013 246 participants, 715 kg





Bureau of Health Promotion Prize







Flu control policy

- Visitors and contract workers control
- Environment control
- Education
- Fever screen
- Vaccine and Tamiflu





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复调谐权 追求

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2013.10.28



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Goal

- Health promotion and chronic disease prevention
- High quality health exam
- Telemedicine (early detection of heart attack)
- AED (1 set / 1,000 employee)
- Hearing protection plan



MEMBER OF **Dow Jones Sustainability Indices** In Collaboration with RobecoSAM (

Dank You

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