



Academic and Research Resume of Faculty Members

Iran University of Medical Sciences
Public Health School



Personal Information

Full Name: Athena Rafieepour

Organizational Position: Educational Faculty Member

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Field of Specialization: Occupational Health, Toxicology

Biography

I am a graduate of a PhD in Occupational Health with a strong academic background and expertise in occupational toxicology, chemical hazards, and physical risk factors.

My research and professional interests focus on the assessment, evaluation, and control of workplace exposures and occupational health risks.

I have gained extensive experience in both scientific and applied aspects of occupational safety and environmental health.

Throughout my professional career, I have served in several executive positions, including research secretary and public relations officer.

I have also worked as the head of an EDO unit and contributed to educational and administrative management activities.

My main focus is on advancing occupational health and safety practices through evidence-based approaches and risk management strategies.

Educational Background

Degree	Field of Study	University
PhD	Occupational Health	Shahid Beheshti University of Medical Sciences
Master	Occupational Health	Hamadan University of Medical Sciences
Bachelor	Occupational Health	Ahvaz University of Medical Sciences

Contact Information

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Teaching Experience

Courses Taught

1. **Identification of Chemical Hazards** – Associate Degree in Occupational Health – Arak University of Medical Sciences
2. **Introduction to Air Pollution Control Methods** – Associate Degree in Occupational Health Engineering – Arak University of Medical Sciences
3. **Human Factors Engineering (I)** – B.Sc. in Occupational Health Engineering – Arak University of Medical Sciences
4. **Personal Protective Equipment (PPE)** – Associate Degree in Occupational Health Engineering – Arak University of Medical Sciences
5. **Safety of Industrial Equipment and Installations** – Associate Degree in Occupational Health Engineering – Arak University of Medical Sciences
6. **Fundamentals of Air Pollutant Sampling** – B.Sc. in Occupational Health Engineering – Arak University of Medical Sciences
7. **Introduction to Industries and Industrial Processes** – B.Sc. in Occupational Health Engineering
8. **Fundamentals of Occupational Health** – B.Sc. in Public Health
9. **Instrumental Analysis** – Ph.D. Program – Shahid Beheshti University of Medical Sciences
10. **Scientific Literature Search and Computer Skills** – B.Sc. in Occupational Health Engineering – Shahid Beheshti University of Medical Sciences
11. **Fundamentals of Occupational Health** – Varamin Higher Education Complex of Health
12. **Workplace Lighting** – B.Sc. in Occupational Health – Iran University of Medical Sciences
13. **Workplace Lighting Design** – M.Sc. in Occupational Health – Iran University of Medical Sciences
14. **Radiation Protection in the Workplace** – M.Sc. in Occupational Health – Iran University of Medical Sciences
15. **Introduction to Industries and Industrial Processes** – B.Sc. in Occupational Health – Iran University of Medical Sciences
16. **Development of Methods for Assessing Chemical Pollutants** – Ph.D. in Occupational Health – Iran University of Medical Sciences
17. **Workplace Lighting Studies** – Ph.D. in Occupational Health – Iran University of Medical Sciences
18. **Workplace Radiation and Electromagnetic Field Studies** – Ph.D. in Occupational Health – Iran University of Medical Sciences
19. **Assessment of Development Impacts on Health** – M.Sc. in Health, Safety, and Environment (HSE) – Iran University of Medical Sciences
20. **Implementation of Integrated Management Systems** – M.Sc. in Health, Safety, and Environment (HSE) – Iran University of Medical Sciences
21. **Occupational Health Management** – M.Sc. in Health, Safety, and Environment (HSE) – Iran University of Medical Sciences
22. **Workplace Noise** – B.Sc. in Occupational Health – Iran University of Medical Sciences
23. **Workplace Vibration** – B.Sc. in Occupational Health – Iran University of Medical Sciences
24. **Occupational Health** – Master of Public Health (MPH) – Iran University of Medical Sciences
25. **Occupational Health Management and Relevant Regulations in Practice** – Master of Public Health (MPH) – Iran University of Medical Sciences
26. **Introduction to Business Models in Occupational Health** – Ph.D. in Occupational Health – Iran University of Medical Sciences
27. **Internship**

Workshops and Training Courses

1. **Asbestos Hazards and Prevention Workshop** – Provincial Health Center – Instructor
2. **Workplace Ergonomics Workshop** – Shazand Petrochemical Complex – Instructor
3. **Microsoft Word Workshop** – Scientific Association of Occupational Health Engineering – Instructor
4. **Advanced Microsoft PowerPoint Workshop** – Scientific Association of Occupational Health Engineering – Scientific Secretary
5. **Research Methodology Workshop** – Student Research Committee, School of Public Health – Instructor
6. **Research Methodology Workshop** – Scientific Association of Occupational Health Engineering, School of Public Health – Instructor
7. **Firefighting and Fire Extinguishing Workshop** – Scientific Association of Occupational Health Engineering – Scientific and Executive Secretary
8. **Spirometry Workshop** – Scientific Association of Occupational Health Engineering – Scientific Secretary
9. **HSE Training Course** – Scientific Association of Occupational Health Engineering – Scientific and Executive Secretary
10. **Proposal Writing Workshop for Medical Residents** – Scientific Secretary
11. **Fire Safety Training Workshop for Laboratory Staff of Vali-e-Asr Hospital** – Instructor
12. **Ergonomics Principles at Work Workshop for Nurses of Vali-e-Asr and Amirkabir Hospitals** – Instructor
13. **Workplace Ergonomics Training Workshop for Staff of Arak University of Medical Sciences** – Instructor
14. **Laboratory Occupational Safety Principles Training Workshop** – Instructor
15. **Research Methodology and Report Writing in Occupational Health Workshop** – Instructor
16. **Entrepreneurship Workshop** – Instructor
17. **Specialized Training Workshop for Technical Managers of Private Occupational Health Service Companies** – Instructor
18. **Specialized Personal Protective Equipment (PPE) Training Workshop for Staff of Iran University of Medical Sciences** – Instructor

Research Experience

Published articles

- 1- Zare Sakhvidi MJ, Bahrami A, Afkhami A, **Rafiei A.** Development of diffusive solid phase microextraction method for sampling of epichlorohydrin in air. International journal of environmental analytical chemistry. 2012; 92(12):1365-77.
- 2- **Rafieepour A**, Ghorbani Shahna F, Hashemi Z, Ghamari F. Measurement of Benzene in Air by Iranian Single-Wall Carbon Nanotubes. 2012; 5(15): 535-40.
- 3- Solhi H, Jamalnia M, Eshrati B, Talebi A, Kazemifar AM, **Rafieepour A.** Carbon Monoxide Production by Wall-Mounted Gas Water-Heaters Used in Apartments of Arak City. Scientific Journal of Forensic Medicine. 2012; 17(4): 239-46.
- 4- **Rafieepour A**, Rezvani Z, Rafieepour E. Measuring the amount of nickel and iron oxide in the breathing zone of welders. Zahedan journal of research in medical sciences. 2013; 15(9): 85-7.
- 5- **Rafieepour A**, Dolatshahi NG, Ghasemkhan AH, Asghari M, Sadeghian M, Asadi A. The effect of the use of NP305 masks in improving respiratory symptoms in workers exposed to sulfuric acid mists in plating and pickling units. Electronic physician journal. 2013; 5(1): 616-22.
- 6- Mazlomi A, Abbasiania M, Dehghan S, Rahmani A, Asghari I, **Rafieepour A.** Motivation and Job Satisfaction: A Case Study of an Automobile Parts Manufacturing Plant. Open Journal of Industrial and Business Management. 2014; 2(2): 16-22.

- 7- **Rafieepour A**, Farasati F, Kalantari S, Motamedzadeh M, Rafieepour E. Estimation of maximum aerobic capacity and the effect of demographic factors and personal habits on it in students of Hamadan University of Medical Sciences. *Qom Univ Med Sci J*. 2014; 8(3): 33-40.
- 8- **Rafieepour A**, Ranjbarian M, Dehghani A, Kalantari S. The prevalence of pulmonary functional impairments workers induced by occupational exposure to Formaldehyde in a resin factory. *Journal of health in the field*. 2014; 1(4): 1-6.
- 9- Ghasemi M, **Rafieepour A**, Asghari M, Abbassinia M, Tabbak R, Ahmadnezhad I, Dormohammadi A. Survey of learning styles of the students in Department of Health in Arak University of Medical Sciences based on Kolb's Model. *International Research Journal of Applied and Basics Sciences*. 2014; 8(9): 1442-6.
- 10- **Rafieepour A**, Ghamari F, Mohammadbeigi A, Asghari M. Seasonal Variation in Exposure Level of Types A and B Ultraviolet Radiation, an environmental carcinogen. *Annals of Medical and Health Sciences Research*. 2015; 5(2): 129- 33.
- 11- **Rafieepour A**, Rafieepour E, Asghari M, Gholamzadeh N, Dehghan SF. Respiratory effects of exposure to flour dust: A case study among workers of flour production factories in Arak. *Journal of Paramedical Sciences*. 2015; 6(3): 81-6.
- 12- Fakhri Y, Rasouli Amirhajeloo L, **Rafieepour A**, Langarizadeh G, Moradi B, Zandsalimi Y, Jafarzadeh S, Mirzaei M. Assessment of accuracy predict the concentration of nitrate groundwater by spatial distribution model (surface kriging map): Hasht Bandi of Minab, Iran. *Journal of Environmental Science, Toxicology and Food Technology*. 2015; 9(4): 86-90.
- 13- Fakhri Y, Moradi B, **Rafieepour A**, Rasouli Amirhajeloo L, Zandsalimi Y, Jafarzadeh S, langarizadeh Gh, Mirzaei M. Concentrations of Nitrate groundwater in the 17 Wells at the Region of Hasht Bandi of Minab, Iran. *Journal of Environmental Science, Toxicology and Food Technology*. 2015; 9(4): 59-63.
- 14- Fakhri Y, Zandsalimi Y, Rasouli Amirhajeloo L, Jafarzadeh S, langarizadeh Gh, **Rafieepour A**, Moradi B, Mirzaei M. Assessment concentration and non-carcinogen risk of arsenic in groundwater by spatial distribution model (Kriging method); Hasht Bandi of Minab, Iran. *International Journal of .Current Microbiology Applied Science*. 2015; 4(3): 819-29.
- 15- Fakhri Y, langarizadeh Gh, Moradi B, Zandsalimi Y, Rasouli Amirhajeloo L, Jafarzadeh S, **Rafieepour A**, Mirzaei M. Assessment non-carcinogenic risk of Cadmium in tap drinking water; City of Minab, Iran. *Journal of Environmental Science, Toxicology and Food Technology*. 2015; 9(3): 68-73.
- 16- Fakhri Y, Jafarzadeh S, langarizadeh Gh, Moradi B, **Rafieepour A**, Zandsalimi Y, Rasouli Amirhajeloo L, Mirzaei M. Determination of concentration and carcinogenic risk of arsenic tap drinking water; City of Minab, Iran. *Journal of Environmental Science, Toxicology and Food Technology*. 2015; 9(3): 33-7.
- 17- Fakhri Y, Mahvi AM, langarizadeh Gh, Jafarzadeh S, Moradi B, Zandsalimi Y, Rasouli Amirhajeloo L, **Rafieepour A**, Mirzaei M. Concentration of radon (Radon 222 and Thoron) in indoor air Decorative stone of warehouses and the effective dose by staff; Minab, Iran. *Journal of Environmental Science, Toxicology and Food Technology*. 2015; 9(3): 62-7.
- 18- Fakhri Y, Zandsalimi Y, Rasouli Amirhajeloo L, Jafarzadeh S, langarizadeh Gh, Moradi B, **Rafieepour A**, Mirzaei M. Non Carcinogen Risk Assessment Lead in Tap Drinking Water in Adult's Age Group; Minab city, Iran. *International Journal of Current Microbiology and Applied Sciences*. 2015; 4(3): 490- 8.
- 19- Fakhri Y, langarizadeh Gh, Jafarzadeh S, Moradi B, Zandsalimi Y, Rasouli Amirhajeloo L, **Rafieepour A**, Mirzaei M. Assessment of risk human health induce to chrome, nickel, lead and cadmium of the tap water; Jask City, Iran. *International Journal of Current Microbiology and Applied Sciences*. 2015; 4(3): 1009- 17.
- 20- Fakhri Y, langarizadeh Gh, Moradi B, Zandsalimi Y, Rasouli Amirhajeloo L, Jafarzadeh S, **Rafieepour A**, Mirzaei M. Concentration of arsenic in drinking water in Bandar Abbas city and quantitative risk assessment. Iran. *International Journal of Current Microbiology and Applied Sciences*. 2015; 4(3): 1024- 34.
- 21- **Rafieepour A**, Rafieepour E, Sadeghian M. Effectiveness of ergonomics training in decreasing the risk of musculoskeletal disorders based on rapid upper limb assessment among computer operators. *Journal of Ergonomics*. 2015; 3(1): 25-32.
- 22- Fakhri Y, Amanidaz N, Zandsalimi Y, Dadar M, Moradi A, Bigard Moradi, Rasouli Amirhajeloo L, Keramati H, **Rafieepour A**. Association between sodium bicarbonate consumption and human health: A systematic review. *International Journal of Medical Research & Health Sciences*. 2016; 5(8): 22-9.
- 23- Asghari M, **Rafieepour A**, Shahedi S, Mirzahoseini M, Chavooshi M, Abbassinia M. Assessment Criteria of Effective teaching of Expert Teachers based on occupational health students' viewpoints in Tehran University of Medical Sciences. *Journal of Paramedical Sciences*. 2016; 12;7(2):29-34.

- 24- Nassiri P, Monazzam MR, Golbabaie F, Dehghan SF, **Rafieepour A**, Mortezaipoor AR, Asghari M. Application of Universal Thermal Climate Index (UTCI) for assessment of occupational heat stress in open-pit mines. *Industrial Health*. 2017; 55(5): 437-43.
- 25- Asgari M, Azari M, Zandehdel R, Khodakarim S, **Rafieepour A**, Tavakol E, Abass Gohari F, Kamalifar S. Development of a New Method for Analysis of Oil Mists. *Health scope*. 2017; 6(3): e15114.
- 26- **Rafieepour A**, Asgari M, Azari M, Abbas Gohari F. Comparison of Fourier Transform Infrared and Ultraviolet Spectroscopy Techniques for Determination of Mineral Oils. *Iran Occupational Health*. 2018; 15(1): 47-54.
- 27- **Rafieepour A**, Nasiri P, Giahhi O, Monazzam Esmailpour MR, Zakerian A, Mohammadian F. The effect of whole body vibration in a simulated environment on response time and mental performance. *Health and Safety at Work*. 2018; 7(4): 343-52.
- 28- Mohammadian Y, Rezazadeh Azari M, Peirovi H, Khodaghohi F, Pourahmad J, Omid M, Mehrabi Y, **Rafieepour A**. Combined toxicity of multi-walled carbon nanotubes and benzo [a] pyrene in human epithelial lung cells. *Toxin Reviews*. 2018; 6: 1-12.
- 29- Asadi P, R.Azari M, **Rafieepour A**, Rahmati A. Feasibility of Biological Monitoring of Anatomy Laboratory Staff Exposed to Formaldehyde. *Health scope*. 2018; 7(4):e62470.
- 30- R.Azari M, Mohammadian Y, Pourahmad J, Khodaghohi F, Peirovi H, Mehrabi Y, Omid M, **Rafieepour A**. Individual and combined toxicity of carboxylic acid functionalized multi-walled carbon nanotubes and benzo a pyrene in lung adenocarcinoma cells. *Environmental Science and Pollution Research*. 2019; 1(26): 12709-19.
- 31- R.Azari M, Mohammadian Y, Peirovi H, Omid M, Khodaghohi F, Pourahmad J, Mehrabi Y, **Rafieepour A**. Antagonistic effect of co-exposure to short-multiwalled carbon nanotubes and benzo[a]pyrene in human lung cells (A549). *Toxicology and Industrial Health*. 2019; 35(6): 445–56.
- 32- Kamalifar S, R.Azari M, **Rafieepour A**, Asgari M, Zandehdel R, Soori H, Tavakol E, Rahmati AR, N.Ghaziani M. Alternative Method for the Analysis of Water-Based Metalworking Fluids Using Fourier Transform Infra-Red Spectroscopy. *Iranian Journal of health, safety and environment*. 2019; 6(3):1323-9.
- 33- Safinejad M, R.Azari M, Zandehdel R, **Rafieepour A**, Khodakarim S, Khodarahmi B. Occupational and biological monitoring of workers exposed to airborne dust in Gol-e-Gohar Iron Ore mine: A Case-Control Study. *Iran Occupational Health*. 2019; 16 (1) :23-32.
- 34- **Rafieepour A**, R.Azari M, Khodaghohi F, Pourahmad Jaktaji J, Mehrabi Y, Peirovi H. The Effect of singular and combined exposures to nanoparticles of magnetite iron oxide and polymorphous silicon dioxide on the toxicity of human A₅₄₉ cell line. *Environmental Science and Pollution Research*. 2019; 26:31752-62.
- 35- **Rafieepour A**, R.Azari M, Peirovi H, Khodaghohi F, Pourahmad Jaktaji J, Mehrabi Y, Naserzadeh P, Mohammadian Y. Investigation of the effect of magnetite iron oxide particles size on cytotoxicity in A₅₄₉ cell line. *Toxicology and Industrial Health* 2019; 35(11-12):703-13.
- 36- **Rafieepour A**, R. Azari M, Khodaghohi F, Pourahmad Jaktaji J, Mehrabi Y, Peirovi H. The effect of single and combined exposures to magnetite and polymorphous silicon dioxide nanoparticles on the human A₅₄₉ cell line: in vitro study. *Environmental Science and Pollution Research*. 2019; 26: 31752-62.
- 37- Irvani H, Jafari M J, Zandehdel R, Khodakarim S, **Rafieepour A**. Removing H₂S gas from the air stream using zeolite ZSM-5 substrate impregnated with magnetite and ferric nanoparticles. *Journal of Health and Safety at Work*. 2020; 10(1):24-36.
- 38- Jafari MJ, Zandehdel R, **Rafieepour A**, Nakhaeipoor M, Irvani H, Khodakarim S. Comparison of Y and ZSM-5 zeolite modified with magnetite nanoparticles in removal of hydrogen sulfide from air. *International Journal of Environmental Science and Technology*. 2020; 17(1):187-94.
- 39- **Rafieepour A**, R. Azari M, Pourahmad Jaktaji J, Khodaghohi F, Peirovi H, Mehrabi Y, Mohammadian Y. The Effect of Particle Size on the Cytotoxicity of Amorphous Silicon Dioxide: An in Vitro Toxicological Study. *Asian Pacific Journal of Cancer Prevention*. 2021; 22(2): 325-32.
- 40- **Rafieepour A**, Rezazadeh. Azari M, Khodaghohi F, Pourahmad Jaktaji J, Mehrabi Y, Peirovi H. Interactive toxicity effect of combined exposure to hematite and amorphous silicon dioxide nanoparticles in human A₅₄₉ cell line. *Toxicology and Industrial Health*. 2021; 37(5): 289-302.
- 41- **Rafieepour A**, R.Azari M, Pourahmad Jaktaji J, Khodaghohi F, Peirovi H, Mehrabi Y, Mohammadian Y. The Effect of Particle Size on the Cytotoxicity of Amorphous Silicon Dioxide: An in Vitro Toxicological Study. *Asian Pacific Journal of Cancer Prevention*. 2021; 22(2): 325–332.
- 42- Zandehdel R, Parsarad M, Asgari Gandomani E, Panjali Z, **Rafieepour A**, Mohammadi Z, Zahra Moradpour, Vahabi M, Mohammad Alipour M, Gholamirjenaki R. Risk assessment of chemical mixtures by benchmark dose-principle component analysis approach in occupational exposure. *Environmental Science and Pollution Research*. 2021; 13: 1-6.

- 43- **Rafieepour A**, Masoumi GR, Dehghani A. Health responses during the COVID-19 pandemic: An international strategy and experience analysis. *Health in Emergencies & Disasters Quarterly*. 2021; 6(3): 147-60.
- 44- **Rafieepour A**, Masoumi GR, Rezazadeh Azari M, Dehghani A. Airborne particulate matter and increased risk of COVID-19 infection. *Journal of Health in the Field*. 2021; 8(3): 1-7.
- 45- **Rafieepour A**, Rezazadeh. Azari M, Khodaghali F. Cytotoxic effects of crystalline silica in form of micro and nanoparticles on the human lung cell line A549. *Toxicology and Industrial Health*. 2022; 38(13):1-13.
- 46- Safarpour H, Ghomian Z, **Rafieepour A**. Hookah: a cultural risk factor for the COVID-19 outbreak in Iran. *Journal of Substance Use*. 2022; 27(3): 229-230.
- 47- **Rafieepour A**, Farhang Dehgahn S, Firoozi M, Gorji R, Ardalan A, Vaziri MH. Study Highlights Impact of Smoking on Hearing Loss Among Workers Exposed to Noise. *Hearing Journal*. 2022; 75(9): 24-28.
- 48- Alimohammadi I, Vosoughi Sh, Abolghasemi G, **Rafieepour A**, Tabatabaei H, Delshadi B. Comparison of the Risk of Musculoskeletal Disorders among Normal and Students with Hearing Abnormalities in Ilam City. *Iranian Journal of Ergonomics*. 2022; 10(2): 120-112.
- 49- Rafiei M, Farshad A.A, Mirkazemi R, Taheri F, Omidimorad A, **Rafieepour A**. The Effect of Shift Working Pattern on Health, Fatigue and Mood Swings of Metro Drivers of Tehran Urban & Suburban Railway Company. *Iran Occupational Health*. 2022; 19(1): 393-407.
- 50- **Rafieepour A**, R.Azari M, Khodaghali F. Cytotoxic effects of crystalline silica in form of micro and nanoparticles on the human lung cell line A549. *Toxicology and Industrial Health*. 2023; 39(1): 23-35.
- 51- Elham K, Ebrahimi H, Taheri F, **Rafieepour A**, Moradi Hanifi S. Evaluation of the HSE-MS Using by Balanced Scored Card and SWOT Approach (A Case study of region 4, District 22 of Tehran). *Journal of Occupational Health*. 2024; 20 (2) :326-340.
- 52- Alimohammadi I, **Rafieepour A**, Hosseini Shafiei L, Vafa MR, Moghadasi N, Vosoughi Sh, Abolghasemi J, Ghasemi R. Investigation the Effect of High-Frequency Noise Exposure on Obesity, Food Intake, and Abdominal Visceral Fat in Adult Male Guinea Pigs. *Journal of Health and Safety at Work*. 2024; 14(2): 216-229.
- 53- **Rafieepour A**, Rezazadeh. Azari M, Alimohammadi I, Farshad AA. The potential of Gol-e-Gohar iron ore mine airborne dust to induce toxicity in human lung A549 cells. *Journal of Occupational and Environmental Hygiene*. 2024; 26:1-3.
- 54- Zendehtdel R, Asgari-Gandomani E, **Rafieepour A**, Panjali Z, Zahra Moradpour. DNA damage in workers exposed to mineral oils. *Drug and Chemical Toxicology*. 2024; 7:1-7.
- 55- **Rafieepour A**, Vahabi Shekarloo M, Ashtarinezhad A, Alimohammadi I, Panjali Z. Benchmark dose determining airborne crystalline silica particles based on A549 lung-cell line survival in an in vitro study. *Scientific Reports*. 2024; 14(1):21458.
- 56- **Rafieepour A**, Irvani H, Jafari Nodoushan H, Jafari MJ, Alimohammadi I, Moradi Hanifi S, Afshari MJ. The influences of horizontal external window shading on energy savings in the office building. *Iran Occupational Health*. 2025; 10;22(1):240-56.
- 57- **Rafieepour A**, Dehghani A, Hanifi SM. Community response to wearing face mask during the COVID-19 pandemic in Iran. *Journal of the Iranian Institute for Health Sciences Research*. 2025; 24(1): 127-138.
- 58- Afshari MJ, **Rafieepour A**, Alimohammadi I. Performance Evaluation of a Thermoelectric Refrigeration-Based Liquid Cooling Garment under Different Ambient Temperatures. *Occupational Medicine*. 2025; 17(2): 12-26.
- 59- Omari Shekaftik S, Mehrparvar N, Peivandi Z, Tasbiti Banasaz S, **Rafieepour A**, Moghadasi N, Ashtarinezhad A. Occupational Exposure to Nanomaterials: A Scoping Review. *Journal of Cluster Science*. 2025; 36:152-167.
- 60- Alimohammadi I, **Rafieepour A**, Ashtarinezhad A, Hosseini AF, Tabatabaei H, Jafari H, Asadi R. Occupational noise annoyance and sensitivity as potential contributors to oxidative stress in metal industry workers. *Scientific Reports*. 2025; 15:1-8.
- 61- Soltan Dehghan H, **Rafieepour A**, Hosseinzadeh S. Assessment of dry eye disease and convergence insufficiency symptoms in e-commerce workers using validated questionnaires: A cross-sectional study. *Optometry and Vision Science*. 2025; 102(10):1-7.
- 62- **Rafieepour A**, Rezazadeh Azari M, Nasiri R, Pourahmad J. Comparison of the toxicity of hematite and magnetite iron oxide nanoparticles on human lung A549 cell lines. *Environmental Health Engineering and Management Journal*. 2025; 12:1400-1410.

Conference Papers

- 1- **Rafieepour A**, Borji M, Hashemi Z. XIX World Congress on Safety and Health of Work. 11-15 September 2011. Stanbul. The comparison of carbon nanotubes performance to traditional activated charcoal for adsorbing of benzene vapor. Poster.
- 2- Farasati F, **Rafieepour A**. 6th University Student Conference on Innovation in Health Sciences. 11 May 2010. Iran-Tehran. Strategies for the effective use of ergonomic interventions. Poster.
- 3- Farasati F, **Rafieepour A**. 6th University Student Conference on Innovation in Health Sciences. 11 May 2010. Iran-Tehran. Investigating the amount of contact with X-rays and determining the danger zone in the employees of the fuel tank leakage section of Kurdistan Power Plant. Poster.
- 4- Bahrami A.R, Zare Sakhvidi M.J, **Rafieepour A**. 7th National Congress of Occupational Health and Safety. 03 May 2011. Iran-Qazvin. Development of Solid Phase Micro Extraction Method for Sampling of Epichlorohydrin in Air and Analysis by GC-MS. Oral presentation.
- 5- Hashemi Z, Golmohamadi R, Monazzam Esmaelpour MR, **Rafieepour A**. 7th National Congress of Occupational Health and Safety. 03 May 2011. Iran-Qazvin. Evaluation of the noise pollution in the Hamadan Nakh spinning industry and design of noise control method. Poster.
- 6- Asgari M, RAZari M, Abbas Gohari F, **Rafieepour A**, Khodakarim S. 9th National Congress of Occupational Health and Safety. 10 June 2015. Iran-Yazd. Validation of a new Fourier Transform Infrared spectrometry method for mineral oil analysis. Poster.
- 7- **Rafieepour A**, Jafari MJ, Nasiri P, Monazzam Esmailpour MR, Azam K, Mohammadian F. 9th University Student Conference on Innovation in Health Sciences. 11 May 2016. Iran-Tehran. The effect of combined noise and vibration characteristics on mental performance. Poster.
- 8- RAZari M, **Rafieepour A**, Zendehdel R, Tavakol E, Abbas Gohari F, Asgari M. 10th University Student Conference on Innovation in Health Sciences. 9 May 2017. Iran-Tehran. Comparison of two methods of Fourier Transform Infrared (FTIR) and Ultra Violet (UV) spectroscopy in mineral oil measurement. Best Oral presentation.
- 9- **Rafieepour A**, Firoozi M, Gorji R, Alinia T. 10th University Student Conference on Innovation in Health Sciences. 9 May 2017. Iran-Tehran. The effect of smoking on the intensity of hearing loss in a metalworking industries' workers. Poster.
- 10- Safinejad M, R.Azari M, Zendehdel R, **Rafieepour A**, Irvani H. 12th University Student Conference on Innovation in Health Sciences. 1 May 2019. Iran-Tehran. Investigation of the serum level of malondialdehyde in the blood of workers exposed to polymorphous silicon dioxide dust in Sirjan Gol Gohar iron ore mine. Poster.
- 11- Akbari A, **Rafieepour A**, Ghojaloo M. 12th University Student Conference on Innovation in Health Sciences. 1 May 2019. Iran-Tehran. Investigating the Impact of Demographic Variables on Workplace Safety Culture Using a Nordic Questionnaire in a Metalworking Industry. Poster.
- 12- R.Azari M, **Rafieepour A**, Pourahmad Jaktaji J, Khodaghohi F, Mehrabi Y. 12th University Student Conference on Innovation in Health Sciences. 1 May 2019. Iran-Tehran. The effect of amorphous silicon dioxide particles dimensions on toxicity in the A549 human lung cell line. Best Oral presentation.
- 13- **Rafieepour A**, R.Azari M, Pourahmad Jaktaji J, Khodaghohi F, Peirovi H, Mehrabi Y. 11th National Congress of Occupational Health and Safety. 18 February 2020. Iran-Tehran. The effect of type of iron oxide nanoparticles on the toxicity of human lung A549 cell toxicity. Poster.
- 14- **Rafieepour A**, R.Azari M, Khodaghohi F, Pourahmad Jaktaji J, Peirovi H, Mehrabi Y. 11th National Congress of Occupational Health and Safety. 18 February 2020. Iran-Tehran. Effect of Combined exposure to hematite and amorphous silica nanoparticles on A549 cell line. Oral presentation.
- 15- **Rafieepour A**, Eskandari Z, Dehghani A. 13th University Student Conference on Innovation in Health Sciences. 10 November 2020. Iran-Tehran. what information do people want to know about COVID-19? A quick online survey. Poster.

- 16- **Rafieepour A**, Dehghani A. 13th University Student Conference on Innovation in Health Sciences. 10 November 2020. Iran-Tehran. The most popular communication channels for health information in the 19-Covid pandemic for Iranian population: guidance for future policy makers. Poster.
- 17- **Rafieepour A**, Dehghani A. 13th University Student Conference on Innovation in Health Sciences. 10 November 2020. Iran-Tehran. Challenges of the E-learning during the outbreak of Covid-19 in Iran. Oral Presentation.
- 18- Ghomian Z, Eskandari Z, **Rafieepour A**, Dehghani A. The Third International Congress on Social Studies in Health (Webinar) and the First Pandemic in the New Millennium: COVID-19. Health Policy Research Center, Shiraz University of Medical Sciences. 16-17 December 2020. Investigating the process of restriction strategies and the trend of daily new cases and death due to Covid 19 in Iran: from March 1 to July 1, 2020. Poster.
- 19- **Rafieepour A**, Dehghani A. Virtual national conference of the research achievements of the country's Covid-19. 15 December 2020. Comparison of health management measures in the control of Covid-19 in selected countries. Poster.
- 20- **Rafieepour A**, Dehghani A, Mohammadi S. The First International Congress on COVID -19 World Experiences. 10-12 May 2023. The health response of Iranians population to the use of face masks during the covid-19 epidemic. Oral Presentation.
- 21- **Rafieepour A**, Ghomian Z, Masoumi GR, Eskandari Z, Dehghani A. The first national conference of social factors affecting health with the focus on Corona. Jundishapour University of Medical Sciences. 14 March 2021. Explanation of cultural challenges in university e-learning during the outbreak of covid-19 pandemic. Oral Presentation.
- 22- **Rafieepour A**, Dehghani A, Masoumi GR. The First Conference on Emerging Diseases (with a focus on COVID-19). Alborz University of Medical Sciences. 18-19 November 2019. Knowing the priority of the general public to receive health information from information sources with the aim of choosing the effective way of presenting health data and controlling epidemics. Poster.
- 23- **Rafieepour A**, Ghomian Z, Masoumi GR, Eskandari Z, Dehghani A. The First Conference on Emerging Diseases (with a focus on COVID-19). Alborz University of Medical Sciences. 18-19 November 2019. Information and public education based on opinion measurement in emerging diseases. Poster.
- 24- **Rafieepour A**, Dehghani A, Mohammadi S. The First International Congress on COVID-19 World Experiences. Zahedan University of Medical Sciences. 10-12 May 2023. The health response of Iranians population to the use of face masks during the covid-19 epidemic. Oral Presentation.
- 25- Alimohammadi I, **Rafieepour A**, Vafa M, Abolghasemi J, Moghadasi N, Ghasemi R. The 2nd International & 15th National Student Conference on Innovation in Health Sciences. 14-15 November 2023. Investigation the effect of high frequency noise exposure on obesity, food intake, and visceral fats in guinea pigs. Oral Presentation.
- 26- Alimohammadi I, AmirArsalan Khan A, **Rafieepour A**, Abolghasemi J. The 2nd International & 15th National Student Conference on Innovation in Health Sciences. 14-15 November 2023. Relation between industrial noise annoyance and demographic parameters including noise sensitivity among blue-collar workers. Poster.
26. Alimohammadi I, Abolghasemi J, Ebrahimi H, **Rafieepour A**, Tabatabaiee H, Noraiee M, Mandali H. 12th National Conference on Occupational Health and Safety. Hamadan University of Medical Sciences. May 23–25, 2023. The effect of using a car display on the performance of drivers using a driving simulator. Poster.
27. Alimohammadi I, Ebrahimi H, **Rafieepour A**, Abolghasemi J, Noraiee M, Tabatabaiee H. 12th National Conference on Occupational Health and Safety. Hamadan University of Medical Sciences. May 23-25 2023. Evaluation the effect of texting on reaction time ‘lane deviation and speed control of drivers using a driving simulator. Poster.

Research Projects

1. Assessment of the physical work capacity and VO_{2max} of students in Hamadan University of Medical Sciences-2010. (Finished)

2. Performance comparison between the carbon nanotubes and conventional activated charcoal in adsorption of benzene vapors. (Finished)
3. Measuring the amount of ultraviolet radiation in the Arak city. (Finished)
4. Investigating the effect of ergonomics training on reducing the risk of musculoskeletal disorders in computer users of the administrative department in Arak University of Medical Sciences in 1990. (Finished)
5. Investigating the effect of exposure to flour dust on the respiratory performance of workers in flour production factories in Arak city. (Finished)
6. Investigating the amount of carbon monoxide in houses with gas wall water heaters. (Finished)
7. Investigation of the use of multi-walled carbon nanotubes in the removal of heavy metals (aluminum, cadmium and nickel) from the effluent of the aluminum industry. (Finished)
8. Investigating the effective factors in the beginning and continuation of smoking and hookah use among middle school and high school students in Isfahan (2016-2017). (Finished)
9. Comparison between 5524-NIOSH standard method and FTIR method in determining the amount of mineral oil mist. (Finished)
10. Investigating the effect of smoking on occupational hearing loss in a metal industry in Central province. (Finished)
11. Systematic review of the effect of sodium bicarbonate consumption on human health. (Finished)
12. Application of Kirkpatrick model in evaluating the educational program for prevention of arbitrary use of drugs in women covered by health houses in zone 3 of Tehran. (Finished)
13. Development and validation of a method of sampling and analysis of water based metalworking liquids by spectroscopy. (Finished)
14. Comparison of the effect of magnetite iron oxide particle size (micro and nanoparticles) on the cytotoxicity in A₅₄₉ cell line: In vitro study. (Finished)
15. Determination of toxicity in single and combined exposure with silicon dioxide and hematite iron oxide nanoparticles on human lung A₅₄₉ cell line: In vitro study. (Finished)
16. Determination of toxicity of silicon dioxide micro and nanoparticles on human lung A₅₄₉ cell line: In vitro study. (Finished)
17. Determination of toxicity of amorphous silicon dioxide micro and nanoparticles on human lung A₅₄₉ cell line: In vitro study. (Finished)
18. Identifying the challenges of the e-learning system during the outbreak of the COVID-19 virus. (Finished)
19. Explaining the lessons learned from the Covid-19 pandemic at three levels: the general public, the clinical treatment force, and health managers. (Finished)
20. Compilation of road map and health information standards in pandemics (focusing on covid-19 disease). (Finished)
21. Evaluation of in vitro toxicity of Sirjan Gol-e-Gohar mine respirable airborne dust in real concentration at work on human lung A549 cell line. (Finished)
22. Benchmark dose determining for airborne crystalline silica particles based on the viability of A549 lung-cell line survival in an in vitro study. (Finished)
23. Behavioral analysis of the Iranian public in the use of face masks in the respiratory health crises: focusing on the Covid-19 pandemic outbreak. (Finished)
24. Assessment of workplace harmful agents in Chloran chemical production Company in 2023. (Finished)
25. Evaluation of workplace harmful agents in Behbahan Cement Factory (2023). (Finished)
26. Measurement of workplace harmful agents in Atomic Energy Organization of Iran in 2023. (Finished)
27. Evaluation of fire risk engineering in Health Faculty of Iran University of Medical Sciences using FRAME and prioritization of control ways using Fuzzy Analysis Hierarchy method. (Finished)
28. study methods for assessing exposure to nanomaterials in exposed workers: a systematic review. (Finished)
29. The Study of effect of rotational unbalancing of blades in a propeller fan on noise production and its modelling. (Finished)
30. Modeling and spatio analysis of the concentration of radioactive pollution (uranium, thorium, and potassium) in the open ir considering the role of stone cutting- case study: Tehran city. (Finished)
31. Determination of size-selective daily permitted exposure for airborne particles of iron oxide (Fe₂O₃) based on toxicity in-vitro study. (Finished)
32. Investigating the effect of designing the external horizontal window shading on energy savings in an office building. (Finished)
33. Evaluation of Academic Advisors' Performance from the Perspective of Health School Students at Iran University of Medical Sciences. (Finished)

34. Examining the accuracy of machine learning algorithms in identifying and prioritizing factors affecting accidents in the construction industry. (Finished)
35. The use of fuzzy Bayesian networks and barometer risk in estimating the dynamic risk of a process unit. (Finished)
36. Prioritization the risk control measures in an automotive industry using Bayesian and fuzzy DEMATEL methods. (Finished)
37. Development of FMEA technique for health, safety and environment risk management of Pardis Technology Tunnel construction project using multi-criteria decision-making methods. (Finished)
38. Investigating the prevalence of dry eye and convergence insufficiency in onlineshop owners. (Finished)
39. Simulation of heat transfer performance of a liquid cooling vest based on thermoelectric cooling process. (Finished)
40. Predict the most important factors affecting the generation of reactive oxygen species by Hematite iron oxide (Fe₂O₃) and crystalline silicon dioxide (SiO₂) nano- and microparticles with Machine learning models in an in-vitro study. (Finished)
41. Investigating and measuring Per (poly) fluoroalkyl substances (PFASs) concentrations in the indoor air of residences in the Tehran metropolis: A field study. (running)
42. Examining the Relationship Between Individuals' Attitudes Toward Job Security and Accident Proneness - A case study in the automotive parts manufacturing industry in 2024. (running)
43. Investigating the effect of co-exposure Noise and Vinyl chloride monomer on liver and Renal function of workers: A case study in the petrochemical industry. (running)
44. Development of a Social Support-Based Training Program for Improving Safety knowledge and Behavior among Electrical Line Workers: An Implementation Model Case Study at the Electricity Distribution Company of Alborz Province in 2025. (running)

Articles and Reports Published by Online News Agencies

1. **Maintaining the Health of Healthcare Personnel through Proper Training in the Use of Personal Protective Equipment.** Pezeshkan Va Ghanoon (Physicians and Law) Website. Available at: yun.ir/9r0gh4
2. **Which Provinces in Iran Are More Affected by COVID-19?** Iranian Students News Agency (ISNA). March 12, 2020. Available at: <https://b2n.ir/671331>
3. **How Can We Prevent Virus Transmission in Facilities Housing COVID-19 Patients?** Iranian Students News Agency (ISNA). March 17, 2020. Available at: <https://b2n.ir/267878>
4. **The Strange Link Between Air Pollutants and the Spread of COVID-19: Avoid Unnecessary Travel During the Coronavirus Pandemic.** Young Journalists Club (YJC). March 19, 2020. Available at: <https://b2n.ir/982457>
5. **The COVID-19 Epidemic Could Reach Catastrophic Acceleration by the End of March If...** Iranian Students News Agency (ISNA). March 19, 2020. Available at: <https://b2n.ir/808280>
6. **Increased Musculoskeletal Injuries Among Mobile Phone Users.** Mehr News Agency. November 30, 2020. Available at: <https://b2n.ir/048373>
7. **The Impact of Improper Headphone Use on the Auditory System.** Fars News Agency. December 21, 2020. Available at: <https://khabarban.com/a/30402905>
8. **Designing Horizontal Awnings to Reduce Electricity Consumption in Summer.** Fars News Agency. November 26, 2025. Available at: <https://B2n.ir/pp1950>
9. **Dry Eye: A Common Problem Among Remote Workers.** Tejarat News. February 18, 2026. Available at: <https://B2n.ir/zg9011>
10. **Behind the Scenes of Artificial Intelligence and Environmental Pollution.** Mehr News Agency. June 6, 2026. Available at: <https://B2n.ir/dj1046>

Books

- 1- Occupational Disease and Epidemiology. Mohammad-Hossein Vaziri, Ashkan Khatabakhsh, Atousa Dolatyari, Athena Rafieepour. Shahid Beheshti University of Medical Science Publisher.2019. ISBN: 978-964-8858-34-1.
- 2- Health care center in epidemics, emergencies and disasters. Pirhossein Kolivand, Zohreh Ghomian, Gholamreza Masoumi, Ali gohari, Arezoo Dehghani, Athena Rafieepour, Zahra Eskandari, Pooneh Maziar. 2021. ISBN: 978-964-422-963-3.
- 3- Determining health exposure limits for chemicals without threshold limit value. Mansour Rezazadeh Azari, Athena Rafieepour. 2022. ISBN: 978-622-5964-16-7.
- 4- Qualitative Risk Assessment and Evaluation of Workers' Exposure to Hazardous Chemical Compounds in Industrial, Agriculture, and Service Sectors. Mansour Rezazadeh Azari, Athena Rafieepour. 2025. ISBN: 978-622-5964-68-6.

Thesis

1. Examining the Relationship Between Individuals' Attitudes Toward Job Security and Accident Proneness - A case study in the automotive parts manufacturing industry in 2025. Ethical code: IR.IUMS.REC.1404.485. (First Supervisor)
2. Development of FMEA technique for health, safety and environment risk management of Pardis Technology Tunnel construction project using multi-criteria decision-making methods. Ethical code: IR.IUMS.SPH.REC.1404.005. (First Supervisor)
3. Investigating the effect of co-exposure Noise and Vinyl chloride monomer on liver and Renal function of workers: A case study in the petrochemical industry. Ethical code: IR.IUMS.REC.1404.157. (First Supervisor)
4. Development of a Social Support-Based Training Program for Improving Safety knowledge and Behavior among Electrical Line Workers: An Implementation Model Case Study at the Electricity Distribution Company of Alborz Province in 2025. Ethical code: IR.IUMS.REC.1403.730. (First Supervisor)
5. Survey and prioritizing factors affecting job stress and organizational commitment in employees of the Ministry of Health and Medical Education using the DANP technique. Ethical code: IR.IUMS.REC.1403.534. (First Supervisor)
6. A comparative study of self-directed learning and interactive lecture teaching through simulated maneuvers for operating room Fire suppression based on NFPA 99 standard. Ethical code: IR.SBMU.SEM.REC.1402.076 (Second Supervisor)
7. Design and production of portable liquid cooling garment for heat stressed-occupation. Ethical code: IR.IUMS.REC.1400.1067. (Second Supervisor)
8. Studying the Effectiveness of LEV Systems in Control of Chemical Pollutants, Case Study in Iran Khodro Diesel Factories (2023). Ethical code: IR.IUMS.REC.1403.529. (First Consultant Professor)

Journal Review

1. Journal Archive of Current Research International
2. Journal International Journal of Environmental Health Research
3. Toxicology and Industrial Health Journal
4. Scientific Reports Journal
5. The Saudi Dental Journal
6. Iran Occupational Health journal

7. Journal of Safety Promotion and Injury Prevention
8. Health in the Field
9. Journal of Arak University Medical Sciences
10. Payesh
11. Rahavard Salamat Journal

Achievements and Honors

2005: The top student in B.S. Degree in Festival of Innovators, Inventors and the Best Students, Jundishapur University of Medical Sciences, Ahvaz, Iran.

For six years: A member of Student Talent Club

For four years: The highest honor student in B.S. Degree in Occupational Health Department, Jundishapur University of Medical Sciences (2004-8).

For two years: The highest honor student in M.S. Degree in Occupational Health Department, Hamadan University of Medical Sciences (2009-11).

For four years: The highest honor student in the Doctoral program of the Occupational Health Engineering Department, Shahid Beheshti University of Medical Sciences (2016-20).

For two years: Selected as the outstanding student in Shahid Beheshti University of Medical Sciences (2019 and 2020).

2020: Top Researcher and Talented Member of National Organization for Development of Exceptional Talents.

2021: Selected as a Distinguished Educator in the Teaching and Learning category of the 16th Educational Festival of Shahid Beheshti University of Medical Sciences for the project titled “Design, Development, and Evaluation of Teaching and Learning in Practical-Laboratory Courses Based on Experience Transfer from Graduates’ Implementation of Operational Theses.

2024: Recipient of two distinguished research project awards at Iran University of Medical Sciences.

Cultural and Extracurricular Activities

1. Editor-in-Chief of Saba Basij Magazine – Ahvaz Jundishapur University of Medical Sciences
2. Editor-in-Chief of Sib-e Salamat Newsletter – Arak University of Medical Sciences
3. Scientific Editor of the Occupational Health Scientific and Educational Journal – Arak University of Medical Sciences
4. Active Member of Student Scientific Associations and Member of the Student Guild Council
5. Member of the “Maximum Voluntary Quarantine” Campaign
6. Member of the World Association of Physicians for Peace and Health (NGO)
7. Member of Nafas Literary Association (NGO)

Employment History

2011-14 Faculty member and Head of Occupational Health Engineering in the department of Occupational Health., School of Public Health, Arak University of Medical Sciences, Iran.

2011-2013 education Director of Occupational Health in Arak University of Medical Sciences

2012-2014 Secretary of research console in the School of Public Health, Arak University of Medical Sciences

2012-2014 Member of education console in the School of Public Health, Arak University of Medical Sciences

2012-2014 Head of Executive Director for Operations in the School of Public Health, Arak University of Medical Sciences

2012-2014 Founder of Student Scientific Society in the School of Public Health, Arak University of Medical Sciences

2012-2014 Member of Student Research Committee in the School of Public Health, Arak University of Medical Sciences

2013-15 Arak Tak flour Producing Co., serving as a health expert.

2013 Iran Combine Manufacturing Company, serving as a HSE officer.

2019 Paya pardaz engineering and laboratory Co., serving as a health expert.

2019 Scientific Secretary of 12th University Student Conference on Innovation in Health Sciences

2022 Faculty member of Occupational Health Engineering in the department of Occupational Health., School of Public Health, Iran University of Medical Sciences, Iran

2022-2023 Secretary of the Committee for Enjoining Good and Forbidding Wrong (Al-Amr bi-l-Ma'ruf wa-n-Nahy 'ani-l-Munkar), School of Public Health

2023 Member of the Safety and Health Promotion Committee, School of Public Health, Iran University of Medical Sciences

2023 Responsible for Student Committee of EDO, School of Public Health, Iran University of Medical Sciences

2023-2024 Executive Vice President, Graduate Program in Master of Public Health Course (MPH)

2024 Research Vice President, Graduate Program in Master of Public Health Course (MPH)

2024 Public Relations Officer, School of Public Health, Iran University of Medical Sciences

2025 Head of Occupational Health, Deputy of Health, Iran University of Medical Sciences

Technical and Professional Skills

English

Skills in working with software MPPD, Power point, Prezi, CANVA

Industrial and Professional Activities

- 1. Estimation of the Risk of Musculoskeletal Disorders Among Administrative Staff – Arak University of Medical Sciences**
- 2. Training on Ergonomic Principles in the Workplace – Arak University of Medical Sciences**
- 3. Training on Ergonomic Principles in the Workplace – Vali-e-Asr Hospital, Arak**
- 4. Firefighting and Fire Safety Training – Vali-e-Asr Hospital, Arak**
- 5. Training on Ergonomic Principles in the Workplace for Employees – Imam Khomeini Shazand Oil Refinery**
- 6. Assessment of the Prevalence of Musculoskeletal Disorders Using the Nordic Musculoskeletal Questionnaire**
- 7. Assessment of the Risk of Musculoskeletal Disorders Using the QEC Method Among Workers – Tak Flour Factory**
- 8. Investigation of the Relationship Between Flour Dust Exposure and Clinical Symptoms and Spirometry Findings Among Workers in Flour Production Factories in Arak**
- 9. Preparation and Compilation of Medical Records for Personnel – Tak Flour Factory and Iran Combine Manufacturing Company**
- 10. Design of Machine Guarding to Prevent the Recurrence of Similar Accidents – Iran Combine Manufacturing Company**

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11. **Development and Compilation of an Industrial Waste Management Guideline** – Iran Combine Manufacturing Company
 12. **Analysis of Workplace Accidents and Development of Comprehensive Recommendations for Accident Prevention** – Iran Combine Manufacturing Company
 13. **Process of Matching Personal Protective Equipment (PPE) to Job Activities** – Iran Combine Manufacturing Company
 14. **Provision of Industrial Consulting Services and Participation in the Measurement and Assessment of Occupational Hazards**