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Academic Qualification

1. PhD (Mechanical & Material Engineering) Universiti Kebangsaan Malaysia (UKM), 2015.
2. M.Eng. (Manufacturing System), Universiti Kebangsaan Malaysia (UKM), 2007.
3. B.Eng. (Hons) Mechanical Engineering, Universiti Teknologi MARA (UiTM), 2000.

Brief Profile

She is graduated in 2015 with PhD of Mechanical & Material Engineering from Universiti Kebangsaan Malaysia (UKM), and currently working as a senior lecturer at Faculty of Mechanical Engineering, Universiti Malaysia Pahang (UMP). Teaching subjects more in to manufacturing fields such as Industrial Engineering, Engineering Economy, Industrial Quality Control, Industrial Management System, Manufacturing Process, Computer Aided Design (CAD), Computer Aided Engineering (CAE), and CAD/CAM. With M.Eng (Manufacturing System) from UKM and B.Eng. (Hons) Mechanical Engineering from UiTM, she started her career path as a lecturer at German Malaysian Institute since 2001 until 2007, taught diploma students as well as E-Level students. Attached with Production Technology Department and developed interest in machining processes and CAD/CAE/CAM. She is active in writing proceeding papers and journals for national and international conference and published several journals on advanced machining and metal matrix composites (MMC).

Working Experiences / Appointment

1. June 2015 ~ Present Senior Lecturer, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
2. Dec 2007~ June 2015 Lecturer, Faculty of Mechanical Engineering (FKM), Universiti Malaysia Pahang.
3. Mar 2009 ~ Mar 2010 Head of Biomechanical Programme, FKM, Universiti Malaysia Pahang.
5. Oct 2008 ~ Mar 2009 Head of Diploma Programme, FKM, Universiti Malaysia Pahang.
6. Mar 2001~Dec 2007 Lecturer, Production Technology Department, German Malaysia Institute, K. Lumpur

Expert Area

Advanced Manufacturing Process, Industrial Engineering, Computer Aided Design (CAD), Computer Aided Engineering (CAE), CAD/CAM

Research Interest

Advanced Manufacturing Processes, Cutting tool, Machinability, Metal Forming, Laser Cutting, Reverse Engineering, Rapid Prototyping

Research Project / Grant

1. University Research Grant, Development of a Lightweight Front Lower Control Arm using Polyetheretherketone(PEEK), Project No. RDU1703311.
2. University Research Grant, Effects of biodegradable PLA on hydroxyapatite coating to improve adhesion properties on Co-Cr-Mo alloy, Project No. RDU1703319.
3. University Research Grant, Surface Integrity of Al-Si/AlN MMC in End Milling Machining Process under Dry Cutting Condition, Project No. RDU1603114.

4. University Research Grant, Investigating the Electrical Discharge machining (EDM) Parameter Effects on A1Si/A1N Metal Matrix Composite (MMC) for High Removal Rate (MRR) and Less EWR-RSM Approach, Project No. RDU161102.
5. University Research Grant, Hydroxyapatite Coating with Oxide Interlayer on Biomedical Grade Cobalt Based Alloy, Project No. RDU1403118.
6. University Research Grant, Wire Electrical Discharge Machining (EDM) of Low Electrical Conductive Materials, Researcher, Project No. RDU 080326.
7. University Research Grant, Development of a Smart Cutting Tool for Sustainable Machining of Nickel Based Alloys for the Application to Turbocharger Manufacturing, Researcher, Project No. RDU 140377.
8. University Research Grant, Development of Titanium Manganese Alloys Foams for Biomedical Applications by Metal Injection Molding, Researcher, Project No. RDU 140354.
9. University Research Grant, New Approach of Ankle Morphometric Measurements for Total Ankle Arthroplasty (TAR) Design, Researcher, Project No. RDU 1403111.

Professional Qualification / Membership / Affiliation / Experience

1. Board of Engineers Malaysia (Registration no: GE110709)
2. Member, International Association of Engineers (IAENG)(membership no: 101740)

Teaching Experience

1. UNIVERSITI MALAYSIA PAHANG
 - Industrial Management System
 - Engineering Economy
 - Industrial Quality Control
 - Industrial Engineering
 - Manufacturing Process
 - Manufacturing Process Lab
 - CAD/CAM
 - Computer Aided Design
 - Finite Element Analysis lab
2. GERMAN MALAYSIAN INSTITUTE
 - CAD 3D Modeling
 - Technical Communication
 - CAD 2D
 - CAD/CAM 2-AXIS
 - CAD/CAM 3-AXIS
 - EDM Wire Cut
 - EDM Die Sinking
 - Introduction to Computer

Post Graduate Supervision

-Nil

Degree / Final Year Supervision

Prediction of Cutting Force by Using Finite Element Method and Analysis of Surface Roughness In End-Milling of Mild Steel	MA13106	Muhammad Aminuddin Hafidz Mohd Baharudin
Prediction of Cutting Temperature of Mild Steel In End-Milling by Using Finite Element Method	MA13058	Muhammad Zaherul Adli Zulkifle
Statistical Analysis & Optimization of Cutting Parameters During End Milling Machining of Aisi 1018: Taguchi Method & Grey Relational Analysis	MA13023	Abdul Samad Bin Jamaludin

Optimization of Molding Parameters Effect to Warpage of Car Door Panel Based on Plastic Flow Simulation Method.	MH11028	Muhammad Syafiq Bin Azizan
Effect of Cutting Parameters on Surface Roughness of AISi/AlN MMC During Milling Machining Process.	MA11106	Noryusaneza Binti Mohd Yusof
Investigation of Musculoskeletal Symptoms and Egonomic Risk Factors among UMP Students When Using the Study Table.	MA11036	Mohd Nazarudin Bin Md Noh
Investigation of Musculoskeletal Symptoms and Egonomic Risk Factors among UMP Students When Using the Study Chair.	MA11032	Muhammad Raziman Bin Hassan
Investigation of EDM Drilling Process in Machining AISi/AlN Metal Matrix Composite (MMC)	MC11058	Mohd Helmy Bin Rahman
Investigation of Microstructure and Tensile Properties on Aluminium Alloy 6061 Weldments by GTAW And GMAW	MA11003	Dona Anak Kulang
Comparative Assessment of Wiper and Uncoated Carbide Tools on Surface Roughness in Hard Turning AISI4140 Steel	MA10116	Muhammad Adib Bin Zainal
The Effect of Cutting Parameter on Performance Characteristics During End Milling Using Coated Carbide	MA10131	Nurhafsha Bte Sa'ari
The Effect of Cutting Parameter on Performance Characteristics During Circular End Milling Using HSS	MA10069	Mohd Zahiruddin Azri
Optimization of Molding Parameter Effect to Warpage of Car Dashboard Based on Plastic Flow Simulation Software	MH06069	
Optimization of Molding Parameter Effect to Warpage of Car Bumper Based on Plastic Flow Simulation Software	MH06047	Mohd Nasrul Mahmudi Mahmud
Surface Integrity of Titanium Alloy in Turning Operation Using Tin Coated Cutting Tool	ME06037	Elie Sem Semilin
Taguchi Approach and Experimental Investigation on Surface Integrity of Titanium Alloy in Milling Operation	ME06041	Nurul Hidayah Abd Rahim
Investigation of Wire Electrical Discharge Machine Process in Machining Aluminium T6 6061	ME04013	Ahmad Zaheri Mohsin
Application Occupational Safety and Health in Industry Case Study: CCM Fertilizers Sdn. Bhd.		Idris Md Yusof
Modeling and Simulation of Wire Electrical Discharge Machine Process In Machining Aluminium Alloy T6 6061		Yusriezal Mamat

A) International and National Journal

1. **SH Tomadi**, JA Ghani, CH Che Haron, H Mas Ayu, R Daud, Effect of Cutting Parameters on Surface Roughness in End Milling of AlSi/AlN Metal Matrix Composite, *Procedia engineering* (184) 58-69, 2017
2. **SH Tomadi**, JA Ghani, H Mas Ayu, R Daud, Tool wear of uncoated carbide and PVD TiAlN coated carbide tools in end milling of AlSi/AlN metal matrix composite, *International Journal of Advanced and Applied Sciences* 4 (9), 150-155, 2017
3. H Mas Ayu, S Izman, R Daud, G Krishnamurthy, A Shah, **SH Tomadi**, MS Salwani, Surface Modification on CoCrMo Alloy to Improve the Adhesion Strength of Hydroxyapatite Coating, *Procedia engineering* (184), 399-408, 2017
4. H Mas Ayu, R Daud, A Shah, MY Faiz, HM Hazwan, MS Salwani, **SH Tomadi**, MS Reza, Thermal oxidation process improved corrosion in cobalt chromium molybdenum alloys, *International Journal of Advanced and Applied Sciences* 4 (9), 144-149, 2017
5. FA Zakaria, R Daud, H Mas Ayu, **SH Tomadi**, MS Salwani, Mohammed Rafiq Abdul Kadir, The Effect of Position and Different Size of Radial Hole on Performance of Cannulated Pedicle Screw, *MATEC Web of Conferences* (108), 13001, 2017
6. R Daud, H Mas Ayu, MS Salwani, **SH Tomadi**, Mohammed Rafiq Abdul Kadir, Artificial Neural Network: The Alternative Method to Obtain the Dimension of Ankle Bone Parameters, *Journal of Engineering and Applied Sciences* 12 (10), 2782-2787, 2017
7. JA Ghani, CHC Haron, MS Kasim, MA Sulaiman, **S.H. Tomadi**, Wear mechanism of coated and uncoated carbide cutting tool in machining process, *Journal of Materials Research* 31 (13), 1873-1879, 2016
8. **S.H. Tomadi**, JA Ghani, CHC Haron, MS Kasim, AR Daud, Optimization of Cutting Parameters of Multiple Performance Characteristics in End Milling of AlSi/AlN MMC–Taguchi Method and Grey Relational Analysis, *Jurnal Teknologi* 68 (4), 2014
9. **S.H. Tomadi**, JA Ghani, CH Che Haron, AR Daud, Optimization of Cutting Parameters for End Milling AlSi/AlN Metal Matrix Composite Using the Taguchi Method, *Materials Science Forum* 773, 429-436, 2014
10. **S.H. Tomadi**, J.A. Ghani, C.H. Che Haron, M.S. Kasim, M.H. Abd Kadir and A.R. Daud, Surface Integrity of Newly Developed of AlSi/AlN Metal Matrix Composite during End Milling Under Dry Cutting Conditions, *Research Journal of Applied Sciences, Engineering and Technology* 6(6): 1129-1134, 2013 ISSN: 2040-7459; e-ISSN: 2040-7467 © Maxwell Scientific Organization, 2013
11. **S. H. Tomadi**, J. A. Ghani, Che Hassan C. H and A. R. Daud, Effect of Machining Parameter On Tool Wear and Surface Roughness of Al-AlN Reinforce MMC In End Milling Machining. *Journal Engineering E-transaction. Electronic Journal of University Malaya (EJUM)*, 2011
12. J A Ghani, CH Che Haron, SH Hamdan, AY Md Said, **S.H. Tomadi**, Failure mode analysis of carbide cutting tools used for machining titanium alloy, *Ceramics International* 39 (4), 4449-4456, 2013
13. SP Chuan, JA Ghani, **S.H. Tomadi**, CHC Hassan, Analysis of Ti-base Hard Coating Performance in Machining Process: A Review, *Journal of Applied Sciences(Faisalabad)* 12 (18), 1882-1890, 2012
14. MS Reza, M Hamdi, **S.H. Tomadi**, AR Ismail, Optimization of Control Parameters for EWR in Injection Flushing Type of EDM on Stainless Steel 304 Workpiece, *journal of world academy of science engineering and Technology* 72, 2010
15. M. A. Hassan, H. Musa, S. Sharif, D. Rosdi and **S. H. Tomadi**, Surface Integrity Study in WEDM Of Tungsten Carbide, *Solid State Science and Technology*, Vol. 16, No 1 (2008) 1-11 ISSN 0128-7389, UKM, 2008

B) International and National Conference Papers

1. JA Ghani, CHC Haron, **S.H. Tomadi**, MS Kasim, MA Sulaiman, Wear mechanism of carbide cutting tools in machining process, Proceedings of Malaysian International Tribology Conference 2015, 133-134, 2015
2. M.A. Sulaiman, C.H. Che Haron, J.A. Ghan, **S.H. Tomadi**, M.S. Kasim, Performance Assessment of Carbide Tool Under Bio-Degradable Minimal Quantity Lubrication and Flooded Coolant In Turning Ti-6Al-4V ELI, 16th Conference of the European Roundtable on Sustainable Consumption and Production (ERSCP) & 7th Conference of the Environmental Management for Sustainable Universities (EMSU), 2013
3. **S.H. Tomadi**, J.A. Ghani, C.H. Che Haron and A.R. Daud, Optimization of Cutting Parameters on Tool life and Surface Roughness in End Milling of AISi/AlN MMC - Taguchi Method and Grey Relational Analysis, International Conference on Robust Quality Engineering (ICQRE), UTM, 2013
4. **S.H. Tomadi**¹, J.A. Ghani^{2*}, C.H. Che Haron², A.R. Daud³, Optimization of Cutting Parameters for End Milling AISi/AlN Metal Matrix Composite Using the Taguchi Method, AMPT, Wollongong Australia, 2012
5. **S.H. Tomadi**¹, J.A. Ghani^{2#}, C.H. Che Haron² and A.R. Daud, Determination of Optimum Cutting Parameters for Surface Roughness and MRR in End Milling of AISi/AlN Metal Matrix Composite Using Taguchi Method and Grey Relational Analysis, International Conference on Engineering and Built Environment (ICEBE), UNITEN, 2012
6. **S.H. Tomadi**, J.A. Ghani, Che Hassan C.H, A.R. Daud, Experimental Study on Tool Wear and Surface Roughness in End Milling Machining of AlN Reinforced Aluminium Metal Matrix Composite (MMC), Regional Tribology Conference, Bayview Hotel, Langkawi Island, Malaysia, 22-24 November 2011
7. **S.H. Tomadi**¹, M.A. Hassan², Z. Hamedon, Member, IAENG 1R. Daud, ¹A.G. Khalid, Analysis of the Influence of EDM Parameters on Surface Quality, Material Removal Rate and Electrode Wear of Tungsten Carbide, International Conference on Industrial Engineering (ICINDE09), Hongkong, 2009
8. **S. H. Tomadi**¹, M. A. Hassan, ¹M. S. Reza, ²Z. Hamedon, ¹R. Daud, ¹M.A.A. Ismail, Surface Roughness Evaluation of Tungsten Carbide in EDM Processes, International Conference on Advance Mechanical Engineering (ICAME09), Shah Alam, 2009
9. M. A. Hassan¹, N. S. Mehat¹, R. Daud¹ and **S. H. Tomadi**¹, Study of The Surface Integrity of Aisi 4140 Steel in Wire Electrical Discharge Machining, International Conference on Industrial Engineering (ICINDE09), Hongkong, 2009
10. M. A. Hassan¹, S. S. M. Yunus¹, R. Daud¹ and **S. H. Tomadi**¹, Study of the Surface Integrity of The Machined Workpiece in The Wedm of Tungsten Carbide, International Conference on Industrial Engineering (ICINDE09), Hongkong, 2009
11. Z. Hamedon¹, M.N.O. Zahid², **S.H Tomadi**³, Dr. B.A. Hisham (M.D)⁴, Prof. A.K. Ariffin⁵, Design, Analysis and Manufacture a Prototype of the External Elbow Hinge Fixator a Bio-Mechanic Product, International Conference on Industrial Engineering (ICINDE09), Hongkong, 2009
12. M. S. Reza¹, K. A. Idris², **S. H. Tomadi**³, M.A. Hassan⁴, W. S. W. Harun⁵, Analysis On The Effect Of Mechanical Properties Tensile Strength Of The Recycling Acrylonitrile-Butadiene-Styrene (ABS) Upon Of A Virgin ABS, International Conference on Advance Mechanical Engineering (ICAME09), Shah Alam, 2009
13. Z. Hamedon¹, M. Azmir¹, M.N.O. Zahid¹, M.S. Reza², **S.H. Tomadi**², Study on the Effect of the Cooling Parameter to the Warpage Problem, MUCEET 2009
14. M.S.M. Sani, A. Senawi, M.Y. Taib, M.M. Rahman, A. Sulaiman, K. Kadrigama, **S.H. Tomadi**, R. Daud, M.M. Noor & M.R.M. Rejab, Quantitative Assessment of Bachelor Mechanical Engineering Programs by Senior Exit Surveys at Universiti Malaysia Pahang, International Conference, Madinah
15. **S.H. Tomadi**, R. Daud, M. A. Yusuff, N. A. N. Mohamed, Analysis of Reliability and Maintainability for Solder Printer in Surface Mount Technology System, National Conference of Design and Concurrent Engineering, UTeM, 2008

16. **S.H.Tomadi**, M.A.Azmir, Z. Hamedon, D.Rosdi, M.A.Hassan, Y.Mamat, Modeling and Simulation of Wire Electrical Discharge Machine Process in Machining Aluminium Alloy T6 6061, Malaysia Science and Technology Congress, COSTAM, 2008
17. M.A.Azmir, **S.H. Tomadi**, R. Daud, A.Z. Mohsin, Y. Mamat, Surface Robust Experimental Methods in Predicting Surface Roughness in Electrical Discharge Machining Process, Uitm, 2008
18. R.Daud, **S.H. Tomadi**, M. A. Hassan, A.Yusop, Conceptual Design of Two-Plate Injection Mold for UMP's Keychain, National Conference of Design and Concurrent Engineering, UTeM, 2008
19. Z.Hamedon, M.N.O. Zahid, Z.Ghazalli, **S.H. Tomadi**, M.Adzwan, Hexagonal TPE Floor Tile to Meet the Performance Needs of Athletes, Asia Pacific Industrial Engineering and Management Systems Conference, Sepuluh Nopember Institute of Technology, Bandung Institute of Technology and Indonesian Association of Industrial Engineering Higher Education Institutions (BKSTI), 2008
20. M.A.Hassan, H. Musa, S. Sharif, D. Rosdi, **S.H.Tomadi**, Study of The Surface Integrity of The Machined Workpiece in The WEDM of Tungsten Carbide, UKM, 2008
21. Z. Hamedon, M.N.O.Zahi, **S.H Tomadi**, M.M. Noor, ,M.Rizwan M.J, Design and Fabricate the Prototype of a Motorized Cutter for Harvesting Palm Fruit, Malaysia Science and Technology Congress, COSTAM, 2008

List of Books/ Modules

1. Manufacturing Process Laboratory BMM3611 Module, 2016.

List of Consultancy

1. Finite Element Analysis FEA for Tank Outlet Nozzle for IOI Oleo Chemical Plant, 2009.
2. Panel Industri bagi Bengkel Pembangunan Standard Kemahiran Pekerjaan Kebangsaan (NOSS) bagi bidang "Technical Lecturer", 2016.

Awards / Research / Achievements

1. Malaysia Technology Expo (MTE) 2009, PWTC Kuala Lumpur, Motorized Cutter for Palm Fruit Harvesting, Gold Medal.
2. Salon International Des Inventions 2009, Geneve, Motorized Cutter for Palm Fruit Harvesting, Bronze Medal.
3. 20th International Invention, Innovation & Technology Exhibition, ITEX 2009, Kuala Lumpur Malaysia, Universal Hinge Fixator, Silver Medal
4. 20th International Invention, Innovation & Technology Exhibition, ITEX 2009, Kuala Lumpur Malaysia, Spring Activated Pole, Silver Medal

Patents

-Nil

List of Course / Conference Attended

Date	Program	Status
25 January 2017	Bengkel Pelaksanaan P4P FKM (Pilot Test)	Participant
26 January 2017	Mesyuarat Majlis Fakulti (Faculty Council) Kali Ke-7 Bil.1/2017	Participant
5~6 December 2016	Autodesk Inventor Professional Mold Design	Participant

10 -12 April 2015	Bengkel Perancangan Strategik FKM, UMP	Participant
7~8 May 2014	Workshop on Elektron Backscattering Diffraction (Ebsd) in Sem	Participant
25 Nov 2013	Workshop on "Understanding the Alicona Infinite Focus 3d Metrology Systems and the Applications in the Field Of R&D and Industry	Participant
7~8 Nov 2013	Bengkel Perancangan Strategi Focus Group Mpgf	Participant
27 August 2013	ICOE Seminar	Participant
24 August 2013	Bengkel Retreat Akademik Fkm	Participant
20~22 August 2013	Bengkel Penulisan Jurnal Berimpak Tinggi	Participant
14~22 Dec 2009	Penilaian Tahap Kecekapan Courses	Participant
20 June 2013	Oil and Gas Workshop - Meeting with Industries	Participant
1~8 June 2013	Joint Conf., 16th Conference of the European Roundtable on Sustainable Consumption and Production & 7th Conference of the Environmental Management for Sustainable, Istanbul	presenter
22~25 April 2013	1st International Conference on Robust Quality Engineering, UTM, Kuala Lumpur	Presenter
6~9 April 2010	Interviewer Panel JPA Program Ijazah Luar Negara (PILN) 2009 at Alor Setar, Kedah	Interviewer Panel
27 March 2010	Seminar Biomekanikal Di Ump Gambang	Organizer
10~12 Dec 2009	OBE Workshop at Summerset Rompin	Facilitator
23~25 June 2009	International Conference, ICAME 2009 Shah Alam, Selangor	Presenter
12~31 May 2009	Induction and TWC Courses	Participant
5 May 2009	FKM EAC Self Assessment Report Workshop	Expert Panel
12~18 April 2009	Research Methodology for PHD (SLAB) Courses	participant
10~12 Apr 2009	FKM External Examiner Evaluation at Kuala Lumpur	Facilitator & Expert Panel
31 March ~1 Apr 2009	Interviewer Panel JPA Program Ijazah Luar Negara (PILN) 2009 at Universiti Malaysia Terengganu.	Interviewer Panel
18~20 March 2009	International MultiConference of Engineers and Computer Scientist 2009, Hong Kong	Presenter
30 Mar 2009	CIDB Green Card Training	Participant
10 Mar 2009	FKM UMP Industry Advisory Panel Meeting	Facilitator & Expert Panel
4~6 Mar 2009	Training Panel Penemuduga Program Ijazah Luar Negara (PILN) 2009 at A'Famosa, Melaka.	Participant
19~21 Feb 2009	Malaysia Technology Expo (MTE) 2009	Project member
6~8 Feb 2009	Bengkel Lab	Facilitator
28~31 Jan 2009	Kursus Pengajaran dan Pembelajaran 2, Ancasa Hotel, KL	participant
16~17 Jan 2009	FKM EAC preparation, Vistana Hotel, Kuantan	participant
10 Jan 2009	Training on Nastran Patran (CAE software)	participant
30 Dec 2008	Training on Introduction to STATISTICA Industrial	Participant
21~23 Dec 2008	Engineering Accreditation (EAC) Lead Trainer, Vistana Hotel, Kuantan	Participant
17~20 Dec 2008	Kursus Pengajaran dan Pembelajaran, Cherating	Participant
16~17 Dec 2008	Malaysian Science and Technology Congress, MSTC08, 16~17 Dec, KLCC, Malaysia, 2008.	Presenter
4~5 Dec 2008	FKM APEX15: Strategic Planning and SKT, Hotel Legend, Cherating.	Participant
1~3 Dec 2008	FKM OBE Workshop: Curriculum Transformation and Teaching Plan Review, Selesa Hilhomes, Bukit Tinggi.	Participant
28~29 Oct 2008	National Conference on Design and Concurrent Engineering (DECON08), 28-29th October 2008, Avillion Legacy Hotel, Melaka	Presenter
23~24 Jun 2008	Training on Writing Conference Paper by Prof. Dr. Azirah Hashim, UM at Vistana, Kuantan.	Participant
16 ~ 17 June 2008	Classroom Management, UMP	Participant
9~11 Jun 2008	FKM Continuous Quality Improvement(CQI) in OBE Training by Prof. Ir. Dr. Riza UKM, and EAC Task Force Meeting, De Rhu, Balok, Kuantan.	Participant
5 ~ 6 May 2008	Bengkel Kemahiran Kepimpinan, Vistana, Kuantan	Participant
29 Feb ~2 Mar 2008	FKM Outcome Base Education Training, Holiday Villa, Cherating.	Participant
10~14 Mar 08	MasterCam X - Modeling and CAM	Participant
29 Feb ~2 Mar 08	FKM Outcome Base Education Training, Holiday Villa, Cherating.	Participant

2~11 Jan 08	Conventional Milling Machine (Basic, Advanced, Troubleshooting & Maintenance)	Participant
8~12 May 06	Workshop on assessment & Evaluation of Training for National Dual Training for National Dual Training System (NDTS), Germany.	Participant