

XXXVI Encontro Nacional de Engenharia de Produção - ENEGEP 2016

ABEPRO Jovem

Ementa de Minicurso

Título: Human performance reliability adopting the WindChill software

Data: Quarta-Feira, 05 out 2016

08h30 às 12h

Faculdades Maurício Nassau Laboratório 1

Carga Horária: 4 (Quatro) horas

Facilitador(es): Francesco Facchina
(Poliba)

Francesco Facchini in 2015 and so far, was Adjunct Professor of industrial Logistics for degree course in engineering of the logistic system in food field. Managed by the Department of Agrarian Sciences - University of Foggia.

In 2014 was designated Safety Manager (RSPP) in Department of Mechanical, Mathematical and Management of the Technical University in Bari. In same Department, he is the Technical contact person of "Industrial Systems Engineering" Laboratory.

In 2013 he earned the Phd degree in "Safety management, organizational models and Innovation in Production Processes" - XXVI cycle (SSD ING/IND 17). His fields of research include the Risk management, the environmental assessment in workplaces, and the air pollutant dispersion modelling in indoor industrial work environment.

From 2012 he submitted many scientific works, in particular his papers are published in Special Issue Springer and in different International Conference as: "International Federation of Automatic Control", "European Modeling & Simulation Symposium", "International Workshop on Innovation for Logistics", and Summer School "F. Turco" in Industrial Mechanical Plants. From 2011 he teaches and supports the teaching activities for the degree courses in Management Engineering (II level) of Technical University in Bari and in Science and Management of Maritime Activities in Taranto's Petty Officer Academy. In 2014 he teaches "Project Management" and "Forecast Demand Analysis" in Master course: "Product and Operations manager".

In 2010 he graduated in Management Engineering – curriculum "Environmental and Business Management" of Technical University in Bari. In the same year he qualifies to take the Professional Engineer

From 2001 to 2006 he worked as Mechanical Technician and from 2006 to 2011 he was designated Hazardous Waste Manager in Department of the Chemistry of the University of Bari. In the same years the workers elected him as Workers' Safety Representative (RLS).

Associação Brasileira de Engenharia de Produção

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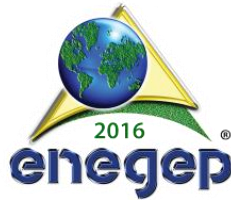
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Ementa:

Human performance reliability plays a central role in modern manufacturing systems, in many cases it is very difficult to quantify the influence of human behaviour and identify its variability on manufacturing systems. Therefore, a reliable description requires the adoption of tools able to evaluate the probability that an operator will correctly perform some system-required activity during a given time period. For this scope the Fault Tree Analysis (FTA) allows to evaluate the reliability of a system and identify the cause of failure by stepping through a series of logical events. In this course the fundamental features of innovative software as PTC Windchill FTA 10.2 (formerly Relex 2011) will be explained in order to design and to develop a FTA, with particular focus on data entry, data analysis, and data output.

Main goals of the short course are:

- Provide introductory information about Human performance modelling;
- Introduce key features of PTC Windchill FTA 10.2 (formerly Relex 2011), including those for data entry, data analysis, and data output, plus additional features;
- Practice using PTC Windchill FTA 10.2 in a work case: vigilance tasks in safety functions.