TrendMiner – Online Trainings

Recording and slides

Difficulty: intermediate

TrendMiner online training – content overview

1. **Best practices on searches**
   - i. Value based search
   - ii. Similarity search

2. **Working with search results**
   - i. Filter data
   - ii. Compare results
   - iii. Monitoring

3. **Searches – Tips and Tricks**
   - i. Combining AND & OR conditions
   - ii. Find short spikes below indexing resolution
   - iii. Other TrendMiner search options

4. **Contextualisation of process data**
   - i. Annotate past process conditions
   - ii. Monitor future process conditions
   - iii. Create process overview on dashboard

5. **Creating fingerprints to monitor your process**
   - i. Capture recurring patterns (e.g. grade transitions)
   - ii. Compare bad patterns with fingerprint
   - iii. Analyse deviations

6. **Correlation analysis with RE**
   - i. Find correlating tags (for multiple events)
   - ii. Setting filter expression
   - iii. Annotate and monitor correlating events

7. **Methods of correlation analysis in TrendMiner**
   - i. Influence factor analysis incl. time shift
   - ii. Non-linear correlations in Scatter plots
   - iii. Comparison table

8. **Tips & Tricks with the Tag builder**
   - i. Creating new tags by formula and aggregations
   - ii. Calculating the slope of a tag
   - iii. If-Statements

9. **Continuous Process Monitoring**
   - i. Dashboard tiles: TrendHub, Monitoring and Value
   - ii. Monitoring production volume of last 24 h
   - iii. Monitoring process oscillations

10. **Pre-processing data for relevant analysis**
    - i. Filter
    - ii. Reducing noise
    - iii. Removing process outliers

TrendMiner online training – content overview

20. Optimizing and Improving Production
    i. Using Tag Builder for Yield Calculations
    ii. Leveraging Searches, Filters, and Compare Table to Check Product Performance
    iii. Creating Fingerprints and Deviation Monitors to Streamline the Process

21. Three Special Tags which will Improve your TrendMiner Experience
    i. Determine the Percentage of Time when the Process is Producing Product Kappa
    ii. Determine the Daily Pump Throughput using a Special Tag
    iii. Determine and Locate Events that Exceed an Optimal Time Threshold

22. Control your process better than you ever dreamed of
    i. Create a Gantt Chart with flowrate anomalies and include it in a Dashboard
    ii. Create a monitor to show in the dashboard the risk of anomaly
    iii. Current value & TrendHub view tile to show the trends and current values of the variables of interest.
    iv. External content tile –Display the PFD of the process (sharepoint)

23. Root cause analysis: Detecting the undetectable
    i. Correlation of a single event and multiple events: find a common root cause of similar anomalies
    ii. Annotate and list the anomalies in a ContextHub view.
    iii. Build a dashboard as reporting tool - Include trend with the root cause analysis and details of the anomalies..
    iv. Share the dashboard with colleagues to spread the knowledge.

24. TrendHub–Discover Production Data Insights Quickly Through Advanced Searches
    i. Searching for Optimal Operating Ranges
    ii. Advanced Batch Recipe Transition Analyses
    iii. Analyzing Pressure Variability Across Batches

25. Seize team synergy, save time and energy–The ContextHub Method
    i. What Admin rights are?
    ii. Define and annotate historical and future events of interest?
    iii. Create ContextHub views
    iv. Create a Dashboard to follow up and manage the registered anomalies

26. Take your formulas to the next level
    i. Add upper and Lower Limits to any Trend
    ii. Calculate % difference Formula and Visualize on focus chart
    iii. Predict the amount of time remaining before a tank is almost empty

27. Mastering anomaly detection and follow up
    i. Convert durations to a new variable
    ii. Monitor and send email warnings for events shorter than a defined duration
    iii. Contextualize independently short and long events

28. Statistical reporting tricks- Track the dangers of climate change
  i. Get the last 3 months CO2 emissions
  ii. Detect and assess high emissions periods
  iii. Get daily emissions report of the last month

29. Craft and Adopt your golden batch
  i. Identify ideal profile based on multiple calculations
  ii. Detect and track deviations from the ideal profile
  iii. Visualize, comment and approve deviations

30. Daily production & Automatic reporting
  i. Daily production as a new variable: Continuous rolling, as peaks, linear interpolated & stepped.
  ii. Autogenerated event reports: Every shift, all the events.

31. Detecting anomalies and creating soft sensors in ML Hub
  i. Learn essential ML Hub skills and techniques
  ii. Master anomaly detection and soft sensors in MLHub
  iii. Elevate data analysis in MLHub

TrendMiner Searches - Best practices

Title	TrendMiner Searches - Best practices on searches
Difficulty:	Intermediate ([Youtube](#) course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view
Content:	Focus on Value Based and Similarity Search
Sessions EMEA	[Slides](#), [Recording](#)
Session GER	[Slides](#), [Recording](#)
Session US	[Slides](#), [Recording](#)

TrendMiner Searches – Working with search results

Title	TrendMiner Searches - Working with search results
Difficulty:	Intermediate ([Youtube](#) course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search
Content:	Use searches to filter your data, compare results and monitor your process
Sessions EMEA	[Slides](#), [Recording](#)
Session GER	[Slides](#), [Recording](#)
Session US	[Slides](#), [Recording](#)

TrendMiner Searches - Tips & Tricks

Title	TrendMiner Searches - Tips and Tricks
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, working with search results
Content:	Learn Tips & Tricks and think a little outside the box to step up your search game
Sessions EMEA	Slides, Recording
Session GER	Slides, Recording
Session US	Slides, Recording

Contextualisation of process data

Title	Contextualisation of process data
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher
Content:	Contextualising process events like batches, operational or maintenance periods as well as in- or off-spec production to be used for visualization of process conditions and dashboarding.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Creating fingerprints to monitor your process

Title	Creating fingerprints to monitor your process
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, layering, recommended TrendMiner version 2020.R1 or higher
Content:	Are you using fingerprints to their full potential? Capture recurring patterns such as process start-ups, product transition, and golden batches through fingerprints to compare certain events, monitor process dynamics or perform a root cause analysis to avoid deviations from the ideal profile.
Session EMEA	Slides, Recording
Session GER	Slides, Recording
Session US	Slides, Recording
Session ES	Slides, Recording

Correlation Analysis 1 – Recommendation Engine

Title	Correlation analysis with Recommendation Engine
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, layering, TrendMiner version 2020.R1 or higher. Please search for tags with starting with TM-TSP-*, if not available please let us know at the beginning of the training.
Content:	Correlation does not necessarily imply causation but it can be a good indicator and starting point for further analysis. Learn how to automatically search for correlating tags and find early indicators. This can be done with the recommendation engine for one or multiple events up to 1 h before an event happens.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Correlation Analysis 2 – Further methods

Title	Methods of correlation analysis in TrendMiner
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigating in time, saving & loading a view, doing a search, layering, TrendMiner version 2020.R1 or higher. Please search for tags starting with TM-TSP-*, TM-HEX-* and TM-GRA*, if not available please let us know at the beginning of the training
Content:	Next to the Recommendation Engine TrendMiner has additional ways to check correlations between tags & layers. Learn how to check for correlations between tags by the influence factor analysis, visualisation in scatter plots and compare key statistics between multiple layers of one tag in this training.
Session EMEA	Slides Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Tips & Tricks with the Tag builder

Title	Tips and tricks with the Tag Builder
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher
Content:	Besides learning how to create new tags based on formulas or aggregations, we will also show some handy tips and tricks on how to work with the tag builder to solve some very common use cases, such as calculating the slope of a tag, nesting formulas such as IF-statements or determine the maximum value of a set of tags.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Continuous Process Monitoring

Title	Continuous process monitoring
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Next to functionalities for root cause analysis covered in previous trainings, TrendMiner offers a multitude of options to keep track of the current state of your process. Learn how to create a view that always shows the latest data including upper and lower limit, how to get notified about critical process conditions or simply keep track of the product volume of the last 24 h.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Preprocessing data for relevant analysis

Title	Preprocessing data for relevant analysis
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Learn in this online training how to preprocess your data ensuring comparability of analyzed data sets by reducing noise, removing outliers in your process data and filtering data based on a specified time or conditions. In this training we will focus on creating filters and using the tag builder to enable meaningful troubleshooting.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Contextualization of process data

Title	Contextualization of process data
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Sometimes looking at numbers and trends just isn't enough to complete an investigation, some additional contextual information can make all the difference. Learn in this online training how to add context items to your trends both manually and automatically to improve the overall knowledge of an incident. We will focus on adding contextual data to our continuous processes to add more qualitative data to the analysis being performed.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Correlation Analysis with Fingerprints

Title	Correlation Analysis with Fingerprints
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Fingerprinting is a great tool to capture and to compare recurring process events. But did you know you could also use Fingerprints to perform a root cause analysis? In this training you will learn how to use fingerprinting to determine the cause of a batch process anomaly and how to set up a monitor to avoid deviations from the ideal profile.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

3 Ways to Compare Past Process Changes

Title	3 Ways to Compare Past Process Changes
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Using past process data is a great way to figure out how the current process might behave. In this training we will cover three different ways you can leverage previous process changes to have more success in the present and in the future. For this training you will learn how to use ContextHub views, compare tables, and fingerprints.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Tips & Tricks with Time Tags

Title	Tips & Tricks with Time Tags
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	The new TrendMiner versions have Time Tags shipped with the installations. These Time Tags show time as a tag through year, month, day, and hour tags. These discrete time tags can be used in many different ways to get more out of your process data and display KPIs and metrics in useful ways. For this training you will create TrendHub and DashHub views to display interesting insights.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings

Layers

Title	Layers – Comparing Against Historic Periods
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2020.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Every process has its own quirks that affect how it behaves in certain conditions. Comparing each process to its own historic data is the best way to find differences and similarities between time periods. In this training we will cover how to overlay different time periods as layers and how to use those layers as tools for analysis and comparison.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

4 Use cases with the Tag Builder

Title	4 Use cases with the Tag Builder
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	In TrendMiner you can build your own personalized tags using a range of operators available in the Tag Builder. In this training, we will work on 4 use cases, and you will see how you can apply different types of formulas and aggregations to analyse your process.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

DashHub Dashboard

Title	DashHub Dashboard
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	DashHub is your control center where you can oversee multiple aspects of your process. Learn how to create a personalized Dashboard to keep count of specific events and monitor the current value of your main process parameters.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

Searches – Value Based Search

Title	Searches – Value Based Search
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Searches are a powerful tool in the TrendMiner toolkit. Using Value Based Searches, any user will be empowered to find even the most obscure occurrences in their data. Learn how to leverage this tool to find anomalies, optimal performances, and other useful information in your historized data.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

Searches – Accessing Undiscovered Information

Title	Searches – Accessing Undiscovered Information
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Last month we presented the Value Based Search, which covers Boolean condition searches. In this training, we will explore the other search options to take advantage of your historian data in ways that might not be as obvious but give a different perspective.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

Optimizing and Improving Production

Title	Optimizing and Improving Production
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Journey with us as we explore a process optimization use case together. Learn how to utilize formulas to create product yield tags and leverage statistics across multiple operating periods to improve your process. Finally, learn how to create Fingerprints and set up automatic monitoring for future deviations.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session ES	Slides, Recordings
Session FR	Slides, Recordings

Three Special Tags which will Improve your TrendMiner Experience

Title	Three Special Tags which will Improve your TrendMiner Experience
Difficulty:	Intermediate ([Youtube](#) course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2021.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on [YouTube.](#)
Content:	In this online training, we will be exploring more advanced ways of leveraging tag builder to gain deeper insights into our process. We will work on 3 different use cases, and by the end of the training, you will learn how to report on equipment utilization, visualize daily averages/integrals for time series data, and determine how much longer than an optimal threshold a specific process event takes.
Session EMEA	[Slides](#), [Recordings](#)
Session GER	[Slides](#), [Recordings](#)
Session US	[Slides](#), [Recordings](#)

Control your process better than you ever dreamed of

Title	DashHub: Control your process better than you ever dreamed of
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	DashHub is your control center where you can oversee multiple aspects of your process. Learn how to create a personalized Dashboard to keep count of specific events, their distribution over time, monitor the current value of your main process variables and the correlations between them. And last but not least, end your dashboard with a Process Flow Diagram to provide a more holistic view of the plant.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Root Cause Analysis: Detecting the undetectable

Title	Root Cause Analysis: Detecting the undetectable
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	During this training, we are going to go over the 2 most relevant questions for troubleshooting: How relevant is it? And Why did it happen? Through similarity searches, diagnose engine, layers comparison, contextualize, dashboarding and more, in this session we will learn how to understand and leverage our manufacturing process in an easy way.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

TrendHub – Discover Production Data Insights quickly Through Advanced Searches

Title	TrendHub – Discover Production Data Insights quickly Through Advanced Searches
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Journey with us as we discover key insights within our production data through advanced searches and formulas. Learn how to combine multiple parameters within searches, while applying filters for sorting by multiple calculation criteria. Finally, we will leverage advanced formulas in combination with searches to analyze product transitions.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Seize team synergy, save time and energy – The ContextHub Method

Title	Seize team synergy, save time and energy – The ContextHub Method
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join and learn how to develop an efficient method to take advantage of all the production experts' knowledge. Discover how to automatically contextualize events, create Gantt Charts and informative tables, use context fields and approvals to enhance expert contributions. Create a dashboard for visualizing, analyzing, and sharing knowledge within the organization.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Take your formulas to the next level

Title	Take your formulas to the next level
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Journey with us as we deep dive into Formula capabilities, allowing for quicker and more efficient data visualization and troubleshooting. Learn how to add upper and lower limits to any trend, cap process variables displaying unrealistic values, calculate percent difference between two process variables, and predict the amount of time remaining before a tank is empty.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Mastering Anomaly Detection and follow up

Title	Mastering anomaly detection and follow up
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join this training to learn how to master the detection and follow up of critical events. You will discover how to convert the duration of certain events to a new variable, to visually keep track of the impact of the anomalies found. Finally, learn how to automatically monitor and contextualize anomalies shorter than a certain duration, broadening your detection methods.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Statistical Reporting Tricks: Track the dangers of Climate Change

Title	Statistical Reporting Tricks: Track the Dangers of Climate Change
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join this webinar to master statistical reporting and learn how to: -Get the total consumption/emissions of a certain period. -Detect and assess high emissions periods. -Get daily aggregations reports and check its evolution over time.
Session EMEA	Slides, Recordings
Session GER	Slides, Recordings
Session US	Slides, Recordings
Session SPA	Slides, Recordings

Craft and Adopt your golden batch

Title	Craft and Adopt your golden batch
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join this webinar and learn how to: -Identify ideal profile based on multiple calculations -Detect and track deviations from the ideal profile -Visualize, comment and approve deviations
Session ENG	Slides, Recordings
Session GER	Slides, Recordings
Session SPA	Slides, Recordings

Daily production & Automatic reporting

Title	Daily production & Automatic reporting
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join this webinar and learn how to create: -Daily production as a new variable: Continuous rolling, as peaks, linear interpolated & stepped. -Autogenerated event reports: Every shift, all the events that took place
Session ENG	Slides, Recordings
Session GER	Slides, Recordings
Session SPA	Slides, Recordings

Detecting anomalies and creating soft sensors in ML Hub

Title	Detecting anomalies and creating soft sensors in ML Hub
Difficulty:	Intermediate (Youtube course for beginners)
Prerequisites:	Adding tags, navigate in time, saving & loading a view, doing a search, recommended TrendMiner version 2022.R1 or higher. TrendMiner basics are covered in the 'TrendMiner Training' available on YouTube.
Content:	Join this webinar ML Hub oriented and: -Learn essential ML Hub skills and techniques -Master anomaly detection and soft sensors in MLHub -Elevate data analysis in MLHub
Session ENG	Slides, Recordings
Session GER	Slides, Recordings
Session SPA	Slides, Recordings