Increasingly complex global supply chains and logistics require data analytics expertise to achieve organizational performance.

Today’s cutting-edge organization simply cannot survive without constantly optimizing operations. As a leader, you need the power of data analytics to ensure you are making the right decisions. Rensselaer’s Production Analytics Graduate Certificate prepares you to model the organization accurately, differentiate true intelligence from “hunches”, turn unknowns into knowns, and make the best use of data possible.

The Production Analytics Certificate consists of three courses:

- **ENGR 6200: Data-Driven Decision Making**
  Frame questions and resolve problems using data wrangling tools; employ models using linear/nonlinear multivariate methodologies; validate results and develop algorithms for recommendations and forecasts.

- **ENGR 6205: Production and Logistic Analysis**
  Use visualization and cluster analysis to gain insights into production and logistic relationships. Apply data analytics to real-world production problems and questions, including evaluating throughput, factor isolation and output risk analysis, model changes, forecast environmental control factor changes, and minimize defects and shortages.

- **ENGR 6206: Modeling Production Decisions**
  Working with an instructor as a mentor, develop a big data inquiry model for a production problem of your choice. Over the semester, frame the question, collect and prepare data for analysis, perform the analysis and present actionable recommendations.

Explore Rensselaer’s Education for Working Professionals program at a 30-minute Informational Webinar or schedule a Professional Consultation at ewp.rpi.edu/contactus. You can also reach us by email at ewp@rpi.edu or by phone at 860.548.2403.
Production Analytics is one of eight graduate certificates that allow you to develop in-depth expertise quickly in a mission-critical area.

Visit ewp.rpi.edu for an updated listing of certificates offered and program course descriptions.

Graduate Certificates can be stacked to form custom Rensselaer master’s degrees. Rensselaer offers two master’s degrees that can be customized with your choice of certificates.

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