



# PLANT ENGINEERING & MAINTENANCE ASSOCIATION OF CANADA

*association canadienne en maintenance et ingénierie d'usine*

## ASSET MANAGEMENT PROFESSIONAL (AMP) PROGRAM

A photograph of a man and a woman in a factory setting. The man, on the left, is wearing a grey polo shirt and has a yellow and black headset around his neck. He is looking at a tablet held by the woman. The woman, on the right, is wearing a red and white patterned jacket and glasses. She is gesturing with her right hand while holding the tablet. The background shows industrial machinery and a factory floor.

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PEMAC's Asset Management Professional (AMP) certificate program introduces participants to the latest in strategic asset management thinking from recognized global organizations. Participants develop the capacity to engage others and build their knowledge and skill in key subject areas such as risk management and knowledge management (enterprise database systems), while introducing tools for strategic decision making at each stage of the asset lifecycle.

The program is designed to build organizational capacity for excellence in Asset Management by developing relevant knowledge and skills across disciplines for those responsible for Asset Management decision-making and design of the Asset Management system. Graduates have the knowledge to make effective strategic decision at each stage of an asset's lifecycle and develop an understanding of what is required throughout the organization to ensure the right tactics are applied to the right assets at the right time to deliver the required value.

## THE PROGRAM

The program is designed for mid-career professionals and senior managers from varied disciplines including engineering, IT, business management and finance, who have responsibility for managing decisions with respect to the core life cycle functions such as design, selection, operation, maintenance of an organization's assets. The material benefits professionals from both public and private sector organizations, from a broad range of physical asset intensive industries.

Courses are structured to progressively help participants understand and embrace the various concepts necessary to be effective as a maintenance and physical asset management professionals. While not mandatory, it is recommended that the courses be taken and completed in the order in which they are listed.

Offered exclusively by 'asynchronous' online learning, the AMP program consists of six courses that lead to a Certified Asset Management Professional (CAMP) designation.



### COURSE 1

#### **ASSET MANAGEMENT PRINCIPLES AND STRATEGIC DEVELOPMENT** (30 Hours)

Gain an overview of the essentials of Asset Management in the context of ISO 5500x and identify opportunities for application of Asset Management concepts in your organization to realize value. Begin to discover Asset Management decision-making tools.

### COURSE 2

#### **ASSET MANAGEMENT CAPABILITIES DEVELOPMENT** (30 Hours)

Learn how to develop the organizational capability for engaging the workforce to achieve excellent Asset Management performance. Topics include: organizational structure analysis to identify changes needed for a holistic asset management approach, change management, project management, systems thinking, training needs assessment, customer-supplier relationships, adaptive organizations and cultural discipline.





## **COURSE 3**

### **RISK MANAGEMENT & PERFORMANCE IMPROVEMENT** (30 Hours)

Obtain an overview of Risk Management tools and techniques and how these techniques can be used to drive performance improvement through the planning, decision-making and operational phases of any corporate objective. See risk management in the context of holistic Asset Management in which all classes of assets are included - physical assets / equipment, knowledge / information assets, human resources and strategy assets.

## **COURSE 4**

### **DEVELOPING AND IMPLEMENTING ASSET LIFECYCLE DELIVERY ACTIVITIES** (30 Hours)

Gain an understanding of different characteristics and requirements for managing assets through the asset lifecycle delivery stages from asset acquisition, through asset operations and maintenance, to asset disposal. Learn when to use various strategies and tactics and practice applying them to real-world examples.



## **COURSE 5**

### **ASSET KNOWLEDGE MANAGEMENT** (30 Hours)

Study asset information and knowledge management across the full asset lifecycle from the front-end engineering design through the to the “operate and maintain” phase and eventually to asset retirement. Referring to ISO 14224, the course provides a strategic level view of the important role that information and Knowledge Management plays in an asset dependent organization.

## **COURSE 6**

### **CAPSTONE** (30 Hours)

Review the elements of the previous courses and take the opportunity to bring the concepts together in an applied project that requires the development of an Asset Management Policy and Strategy for an organization as well as the development and implementation of an Asset Management Plan for a particular class of assets.

"PEMAC's Asset Management Professional program delivered the knowledge that I was craving. I now approach assets from a wider perspective. An asset management approach cuts across the organization, rather than a single department that is focused solely on lifecycle delivery,"

**Suzane Greeman, CAMA, CAMP, CMRP, MBA, ASQ-CMQOE**  
*Above Ground Asset Manager*  
Veolia North America



"The AMP program has brought both my personal and professional capabilities to a level I was unaware I could achieve, I now have the tools to tackle challenges with higher level understandings and approach"

**Dean Hendrickson, CAMP**  
*Asset Manager, Hydro*  
Northwest Territories Power Corporation

Recognized by a growing number of professional bodies and government institutions, the AMP program is independently designed and maintained by leading experts in asset management from across Canada and around the world. The program has been developed with the support of a grant that was awarded to PEMAC by the Province of Ontario in 2013, as part to the Sector Initiatives Fund program under the Ontario Minister of Training, Colleges and Universities.

PEMAC is a national not for profit association providing global leadership, education and certification in maintenance, reliability and asset management practices. PEMAC's mission is to improve its member's professionalism, safety, performance, and outside recognition and to act as a public voice for its members and the profession.

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